

Db 2120 CCAAGATCACCTCGAGAAAGTCAAGGACCTTCAGAGAAATTGCGCTCTGAAAGAA 2179
QY 181 CGTAGGACGAGTCATATACCTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCTCACC 240
Db 2180 CGTAGGACGAGTCATATACCTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCTCACC 2239
QY 241 GTATTAACCTTGAACACTTGTGAAGACCTGAAACACAGATGAAAGCTTTCGACAGTCCGT 300
Db 2240 GTATTAACCTTGAACACTTGTGAAGACCTGAAACACAGATGAAAGCTTTCGACAGTCCGT 2299
QY 301 CGAGAACCGAGTCAGGACAGTGCATGAACCCCAAGGAACTTTGGTCCAGCATCTCAGCA 360
Db 2300 CGAGAACCGAGTCAGGACAGTGCATGAACCCCAAGGAACTTTGGTCCAGCATCTCAGCA 2359
QY 361 CTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCACTTCGACCAAAAGTCC 420
Db 2360 CTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCACTTCGACCAAAAGTCC 2419
QY 421 CTACTATATCAACAAGGACCTGAAACAACTTGTGGGACCATCCAAATGACAGAGCT 480
Db 2420 CTACTATATCAACAAGGACCTGAAACAACTTGTGGGACCATCCAAATGACAGAGCT 2479
QY 481 CTACCAAGCTTTAGCTGACCTGAAATATGTGAGATTCAGCTTATAGACTCCATGAA 540
Db 2480 CTACCAAGCTTTAGCTGACCTGAAATATGTGAGATTCAGCTTATAGACTCCATGAA 2539
QY 541 ACTCGAAGACTGAGAAAGGCGCTTGTGATCTTTAGGCTGTGACCTGATGAA 600
Db 2540 ACTCGAAGACTGAGAAAGGCGCTTGTGATCTTTAGGCTGTGACCTGATGAA 2599
QY 601 TGCCTTGGACCAAGCAACCTTCAAGCAAAATGACAGGCCATGATATCTGAGTTAT 660
Db 2600 TGCCTTGGACCAAGCAACCTTCAAGCAAAATGACAGGCCATGATATCTGAGTTAT 2659
QY 661 TAATGTTTGAACCACTTATTAACCGCTGTGAGCAAGCAACAATTTGTCAAGCT 720
Db 2660 TAATGTTTGAACCACTTATTAACCGCTGTGAGCAAGCAACAATTTGTCAAGCT 2719
QY 721 CCTCTCTGCTGATATGTGTGAACTGCTGATGATGTTTATGATACGGGACGAA 780
Db 2720 CCTCTCTGCTGATATGTGTGAACTGCTGATGATGTTTATGATACGGGACGAA 2779
QY 781 AGGAGGATCCGATCTCTTTTAAATCTGATCAATTCCTGTGTAAGCAATTT 840
Db 2780 AGGAGGATCCGATCTCTTTTAAATCTGATCAATTCCTGTGTAAGCAATTT 2839
QY 841 GGAAGCAAGTACAGATCTTTTCAAGCAAGTGCAGATTCACAGGATTTGTGCA 900
Db 2840 GGAAGCAAGTACAGATCTTTTCAAGCAAGTGCAGATTCACAGGATTTGTGCA 2899
QY 901 GCGCAGGCTGGGCTCTCTTGTGATGATTTATCAAAATTCAGAGATTTGTGCA 2959
Db 2900 GCGCAGGCTGGGCTCTCTTGTGATGATTTATCAAAATTCAGAGATTTGTGCA 2959
QY 961 TGCATCTTTTGGGGCAGTAACTTTGAGCCAGTGTCCGAGGCTCTTCAATTTGTG 1020
Db 2960 TGCATCTTTTGGGGCAGTAACTTTGAGCCAGTGTCCGAGGCTCTTCAATTTGTG 3019
QY 1021 TAATTAAGCAGATTCGAAGGCGCTTCTTGAAGTGTGAGTGTGAACTCCAGTC 1080
Db 3020 TAATTAAGCAGATTCGAAGGCGCTTCTTGAAGTGTGAGTGTGAACTCCAGTC 3079
QY 1081 CATGCTGTGCTGCTGCTGCAAGAGTGTGCTGCAAGAACTGCAAGATTCAGGC 1140
Db 3080 CATGCTGTGCTGCTGCTGCAAGAGTGTGCTGCAAGAACTGCAAGATTCAGGC 3139
QY 1141 CAATGTAAATCATCTGCAAGAGTGTGCAATCATGATTCAGGATCTTAAAGCA 1200
Db 3140 CAATGTAAATCATCTGCAAGAGTGTGCAATCATGATTCAGGATCTTAAAGCA 3199
QY 1201 CTTTATATGACATGTGCAAGCTGCTTTTCTGTGAGATTTGCAAAAGGCAATTA 1260
Db 1201 CTTTATATGACATGTGCAAGCTGCTTTTCTGTGAGATTTGCAAAAGGCAATTA 1260

Db 3200 CTTTATATGACATCTGCAAGCTGCTTTTCTGTGAGATTTGCAAAAGGCAATTA 3259
QY 1261 AATGCAATATCCCATGATGATGAAATATGCACTCGCATCATATAGAGAAATGTTGAGA 1320
Db 3260 AATGCAATATCCCATGATGATGAAATATGCACTCGCATCATATAGAGAAATGTTGAGA 3319
QY 1321 CTTTGGCAAGTATCTTAAATGAAATTTGAAACCAAAAGTATTTTGGAGATCCCG 1380
Db 3320 CTTTGGCAAGTATCTTAAATGAAATTTGAAACCAAAAGTATTTTGGAGATCCCG 3379
QY 1381 AATGGCTACCTGCAAGTGTGACATGTCTTTAGAGGGGCAACAATGAAATCTCCGAC 1440
Db 3380 AATGGCTACCTGCAAGTGTGACATGTCTTTAGAGGGGCAACAATGAAATCTCCGAC 3439
QY 1441 AATGTAG 1447
Db 3440 AATGTAG 3446

RESULT 2
US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845, 416
; PRIOR FILING DATE: 2001-04-30
; PRIORITY FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-12

Query Match 100.0%; Score 1447; DB 10; Length 3510;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GACCTTGAAGACTCCAGGAATTTCAAGAGCCAGGATGAGCTGAACTCAAGCTCG 60
Db 2064 GACCTTGAAGACTCCAGGAATTTCAAGAGCCAGGATGAGCTGAACTCAAGCTCG 2123
QY 61 CCAAGCTGATGATCAAGGATCTGCAAGCCCGTGGGATCTCTCATGATCTCT 120
Db 2124 CCAAGCTGATGATCAAGGATCTGCAAGCCCGTGGGATCTCTCATGATCTCT 2183
QY 121 CCAAGATCACTCGAAGAAAGTCAAGGACCTTCAAGGAAATTTGGCTTGAAGAA 180
Db 2184 CCAAGATCACTCGAAGAAAGTCAAGGACCTTCAAGGAAATTTGGCTTGAAGAA 2243
QY 181 CGTAGGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCTCACC 240
Db 2244 CGTAGGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCTCACC 2303
QY 241 GTATTAACCTGAGCACTTGGAGAGACCTGAAACACAGATGAAAGCTTTGTGAGTGGCGGT 300
Db 2304 GTATTAACCTGAGCACTTGGAGAGACCTGAAACACAGATGAAAGCTTTGTGAGTGGCGGT 2363
QY 301 CGAGAACCGAGTCAAGGACCTGCAATGAAGCCCAAGGCACTTTGGTCCAGATCTCAGCA 360
Db 2364 CGAGAACCGAGTCAAGGACCTGCAATGAAGCCCAAGGCACTTTGGTCCAGATCTCAGCA 2423
QY 361 CTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCACTTCGCAAAAGTGC 420
Db 2424 CTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCACTTCGCAAAAGTGC 2483
QY 421 CTACTATATCAACAAGGACCTGAAACAACTTGTGGGACCATCCAAATGACAGAGCT 480

Db 2484 CTAATATATACACACAGAGACTCAACAACTTGTGGGACCATCCCAAAATGACAGAGCT 2543
Qy 481 CTACAGCTCTTAACTGAGCTGAAATATATGATGATCTCAGCTTATAGAGCTCCATGA 540
Db 2544 CTACAGCTCTTAACTGAGCTGAAATATATGATGATCTCAGCTTATAGAGCTCCATGA 2603
Qy 541 ACTCCGAAGATGAGAGAGGCTTGTGATGATCTGAGAGCTGATGAGAGCTGAGAG 600
Db 2604 ACTCCGAAGATGAGAGAGGCTTGTGATGATCTGAGAGCTGATGAGAGCTGAGAG 2663
Qy 601 TGCCCTGGACAGACAACTCAAGCAAAATGACCAAGCCATGATATCTGACAGATTAT 660
Db 2664 TGCCCTGGACAGACAACTCAAGCAAAATGACCAAGCCATGATATCTGACAGATTAT 2723
Qy 661 TAAATGTTTGAACCACTATTTATGACCGCTGAGAGAGACAACTATTTGTCAGCT 720
Db 2724 TAAATGTTTGAACCACTATTTATGACCGCTGAGAGAGACAACTATTTGTCAGCT 2783
Qy 721 CCTCTCTGCGTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
Db 2784 CCTCTCTGCGTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2843
Qy 781 AGGAGAGATCCGTGCTGCTCTTTTAAATGAGCATCTTCCCTGTGTAAGACATTT 840
Db 2844 AGGAGAGATCCGTGCTGCTCTTTTAAATGAGCATCTTCCCTGTGTAAGACATTT 2903
Qy 841 GGAAGACAGATGACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTACCA 900
Db 2904 GGAAGACAGATGACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTACCA 2963
Qy 901 GCGAGAGTGGGCTCTCTTTCAGATGATTTTCAATTCAGACAGTGGGAGAGT 960
Db 2964 GCGAGAGTGGGCTCTCTTTCAGATGATTTTCAATTCAGACAGTGGGAGAGT 3023
Qy 961 TGCACTCTTTGGGAGAGATGACATTTGAGCAAGTCCGAGAGCTCTTCAATTTGCTAA 1020
Db 3024 TGCACTCTTTGGGAGAGATGACATTTGAGCAAGTCCGAGAGCTCTTCAATTTGCTAA 3083
Qy 1021 TAAATGACAGAGATGAGAGGCTCTTCTTCTAGATGATGATGATGATGATGATGATGAT 1080
Db 3084 TAAATGACAGAGATGAGAGGCTCTTCTTCTAGATGATGATGATGATGATGATGATGAT 3143
Qy 1081 CATGAGTGGGCTGCGCTCTGAGCAAGTGGCTGAGCAAGTCCGAGAGCTCTTCAATTTGCTAA 1140
Db 3144 CATGAGTGGGCTGCGCTCTGAGCAAGTGGCTGAGCAAGTCCGAGAGCTCTTCAATTTGCTAA 3203
Qy 1141 CAAATGTAACATGCAAAAGATGTCATCTGATTTGAGGTCAAGAGTCTAAAGCA 1200
Db 3204 CAAATGTAACATGCAAAAGATGTCATCTGATTTGAGGTCAAGAGTCTAAAGCA 3263
Qy 1201 CTTTAAATATGACATCTGCAAAAGCTGCTTTTCTGTGAGTGTGCAAAAGGCTATTA 1260
Db 3264 CTTTAAATATGACATCTGCAAAAGCTGCTTTTCTGTGAGTGTGCAAAAGGCTATTA 3323
Qy 1261 AATGACATATCCCATGAGTAATTTGATCTCCGATCTATCAAGAGAGAGAGTTCGGA 1320
Db 3324 AATGACATATCCCATGAGTAATTTGATCTCCGATCTATCAAGAGAGAGAGTTCGGA 3383
Qy 1321 CTTTGGCAAGGTACTTAAATAAATAATTTGAAACAAAGGTATTTTGGAGAGCATCCCG 1380
Db 3384 CTTTGGCAAGGTACTTAAATAAATAATTTGAAACAAAGGTATTTTGGAGAGCATCCCG 3443
Qy 1381 AATGGGCTACCTGCGAGTGTCTTGAAGGGGAGCAACATGAGAACTCCGAGAC 1440
Db 3444 AATGGGCTACCTGCGAGTGTCTTGAAGGGGAGCAACATGAGAACTCCGAGAC 3503
Qy 1441 AATGTAG 1447
Db 3504 AATGTAG 3510

RESULT 3

US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10
Query Match 100.0%; Score 1447; DB 10; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GACCTTGAAGAATCTCAAGAACTTCAAGAGGCAAGATGAGCTGACCTCAAGCTGCG 60
Db 2085 GACCTTGAAGAATCTCAAGAACTTCAAGAGGCAAGATGAGCTGAGCTGAGCTGCG 2144
Qy 61 CCAAGCTGAGTGAATCAAGAGATCTGAGAGGCTGAGAGGCTGAGAGGCTGAGAGGCT 120
Db 2145 CCAAGCTGAGTGAATCAAGAGATCTGAGAGGCTGAGAGGCTGAGAGGCTGAGAGGCT 2204
Qy 121 CCAAGTACCTCGAAGAAATCAAGAGCACTTCAAGAGAAATTTGGGCTCGAAGAGAA 180
Db 2205 CCAAGTACCTCGAAGAAATCAAGAGCACTTCAAGAGAAATTTGGGCTCGAAGAGAA 2264
Qy 181 CGTAGAGCAAGTCAATGAGCTTGTCTGAGAGCTTCACTTGTGAGAGCTTCACTCAAC 240
Db 2285 CGTAGAGCAAGTCAATGAGCTTGTCTGAGAGCTTCACTTGTGAGAGCTTCACTCAAC 2324
Qy 241 GTATTAAGCTGAGACTCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTTGTGAGAGCT 300
Db 2325 GTATTAAGCTGAGACTCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTTGTGAGAGCT 2384
Qy 301 CGAGAGCCGAGTCAAGAGCTGAGAGCTGAGAGCCCAAGAGGCTTGTGAGAGCTTCAAGCA 360
Db 2385 CGAGAGCCGAGTCAAGAGCTGAGAGCTGAGAGCCCAAGAGGCTTGTGAGAGCTTCAAGCA 2444
Qy 361 CTTTCTTCAAGTGTGTCAGAGGCTCTGAGAGAGAGCCATCTGAGCAAAAGAGTGC 420
Db 2445 CTTTCTTCAAGTGTGTCAGAGGCTCTGAGAGAGAGCCATCTGAGCAAAAGAGTGC 2504
Qy 421 CTAATATATCAACCAAGAGCTCAAAACCTTGTGAGAGCAATCCCAAAATGACAGAGCT 480
Db 2505 CTAATATATCAACCAAGAGCTCAAAACCTTGTGAGAGCAATCCCAAAATGACAGAGCT 2564
Qy 481 CTACAGCTTTAGTGAACCTGAGATTAATGATGATGATGATGATGATGATGATGATGAT 540
Db 2565 CTACAGCTTTAGTGAACCTGAGATTAATGATGATGATGATGATGATGATGATGATGAT 2624
Qy 541 ACTCCGAAGATGAGAGAGGCTTGTGATGATCTTGTGAGAGCTGAGAGCTGAGAGTGA 600
Db 2625 ACTCCGAAGATGAGAGAGGCTTGTGATGATCTTGTGAGAGCTGAGAGCTGAGAGTGA 2684
Qy 601 TGCCCTGGACAGACAACTTCAAGCAAAATGACCAAGCCATGATATCTGAGAGATTAT 660
Db 2685 TGCCCTGGACAGACAACTTCAAGCAAAATGACCAAGCCATGATATCTGAGAGATTAT 2744
Qy 661 TAAATGTTTGAACCACTATTTATGACCGCTGAGAGAGAGAGAGAGAGAGAGAGT 720
Db 2745 TAAATGTTTGAACCACTATTTATGACCGCTGAGAGAGAGAGAGAGAGAGAGAGT 2804
Qy 721 CCTCTCTGCGTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780

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Db 2805 CCCTCTGCGCGATGATGTGCTGAAGTGGCTGTGATGTTTATGATGATGAGGAC 2864
Qy 781 AGGAGGATCCGTCCTCTCTTTTAAATCGGATCATTTTCCCTGTGTAAAGACATTT 840
Db 2865 AGGAGGATCCGTCCTCTCTTTTAAATCGGATCATTTTCCCTGTGTAAAGACATTT 2924
Qy 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGCA 900
Db 2925 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGCA 2984
Qy 901 GCGAGAGCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 960
Db 2985 GCGAGAGCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3044
Qy 961 TGCATCTTTGGGGGAGTAACTTTGAGCCAAAGTCCGAGAGTCTCTCAATTTGCTAA 1020
Db 3045 TGCATCTTTGGGGGAGTAACTTTGAGCCAAAGTCCGAGAGTCTCTCAATTTGCTAA 3104
Qy 1021 TAAATACCCAGAGATCGAAGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1080
Db 3105 TAAATACCCAGAGATCGAAGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3164
Qy 1081 CATGTGTGGCTGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1140
Db 3165 CATGTGTGGCTGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3224
Qy 1141 CAATATGAATCTGCAAGAGTGTCCAAATCATTTGATTCAGGTACAGAGTCTAAAG 1200
Db 3225 CAATATGAATCTGCAAGAGTGTCCAAATCATTTGATTCAGGTACAGAGTCTAAAG 3284
Qy 1201 CTTTAAATTAAGATCTGCAAGAGTGTCTTTTCTGTGTGATGTCGCAAAAGGCTAA 1260
Db 3285 CTTTAAATTAAGATCTGCAAGAGTGTCTTTTCTGTGTGATGTCGCAAAAGGCTAA 3344
Qy 1261 AATGCACTATCCCATGATGTAATTTGCACTCCGATCATCGAGAGAGATGTCGGA 1320
Db 3345 AATGCACTATCCCATGATGTAATTTGCACTCCGATCATCGAGAGAGATGTCGGA 3404
Qy 1321 CTTTCCCAAGTACTTAAATAAACAATTTGCAACCAAAAGTATTTTGGAGAGATCC 1380
Db 3405 CTTTCCCAAGTACTTAAATAAACAATTTGCAACCAAAAGTATTTTGGAGAGATCC 3464
Qy 1381 AATGGGCTACTGCGAGTGCAGACTGTCTTAGAGGGGAGCAAACTGGAACTCCCG 1440
Db 3465 AATGGGCTACTGCGAGTGCAGACTGTCTTAGAGGGGAGCAAACTGGAACTCCCG 3524
Qy 1441 AATGTAG 1447
Db 3525 AATGTAG 3531
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RESULT 4

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US-09-845-416-9
/ Sequence 9, Application US/09845416
/ Publication No. US20030171312A1
/ GENERAL INFORMATION:
/ APPLICANT: XIAO, XIAO
/ TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
/ FILE REFERENCE: DE1142
/ CURRENT APPLICATION NUMBER: US/09/845,416
/ PRIOR FILING DATE: 2001-04-30
/ PRIOR APPLICATION NUMBER: 60/200,777
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 9
/ LENGTH: 3858
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-845-416-9
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Query Match 100.0%; Score 1447; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GACCTTGAAGACTCCAGAACTTCAAGAGCCACGATGAGTGGACCTCAAGCTGCG 60
Db 2412 GACCTTGAAGACTCCAGAACTTCAAGAGCCACGATGAGTGGACCTCAAGCTGCG 2471
Qy 61 CCAAGCTGAGTGAATCAAGGATCTGTGGACCCGTTGGCGATCTCTCATTTGACTCT 120
Db 2472 CCAAGCTGAGTGAATCAAGGATCTGTGGACCCGTTGGCGATCTCTCATTTGACTCT 2531
Qy 121 CCAAGTACCTCGAGAAAGTCAAGGACTTCAAGAGAAATTTGCGCTCGAAAGGAA 180
Db 2532 CCAAGTACCTCGAGAAAGTCAAGGACTTCAAGAGAAATTTGCGCTCGAAAGGAA 2591
Qy 181 CGTAGCCACGTCATGACTCTGTCCGACGTTTACCATTTGGGCAATTCAGCTCTCAC 240
Db 2592 CGTAGCCACGTCATGACTCTGTCCGACGTTTACCATTTGGGCAATTCAGCTCTCAC 2651
Qy 241 GTATTAACCTCAGACTCTGGAAGACTGAACACCAAGATGGAAGCTTGTGAGTGGCCGT 300
Db 2652 GTATTAACCTCAGACTCTGGAAGACTGAACACCAAGATGGAAGCTTGTGAGTGGCCGT 2711
Qy 301 CGAGAACCGATGAGGAGCTGATGAAGCCACAGGAACTTTGTCTCAGACATCTCAGCA 360
Db 2712 CGAGAACCGATGAGGAGCTGATGAAGCCACAGGAACTTTGTCTCAGACATCTCAGCA 2771
Qy 361 CTTTCTTCCAGCTGTCTGCAAGGCTCCCTGGGAGAGACATCTGCGCAAAAGTGGC 420
Db 2772 CTTTCTTCCAGCTGTCTGCAAGGCTCCCTGGGAGAGACATCTGCGCAAAAGTGGC 2831
Qy 421 CTACTATATACACAGAGACTTCAAACTTCTCTGGGACATCTCCAAATGACAGAGCT 480
Db 2832 CTACTATATACACAGAGACTTCAAACTTCTCTGGGACATCTCCAAATGACAGAGCT 2891
Qy 481 CTACAGCTCTTATGAGCTGAGCTGAATTAATGTGAGTTTCAAGTTATAGACTGCCATGAA 540
Db 2892 CTACAGCTCTTATGAGCTGAGCTGAATTAATGTGAGTTTCAAGTTATAGACTGCCATGAA 2951
Qy 541 ACTCCGAAGCTGCAAGAGGCTTTGCTGTGATCTCTTGAAGCTGTGAGCTGATGGA 600
Db 2952 ACTCCGAAGCTGCAAGAGGCTTTGCTGTGATCTCTTGAAGCTGTGAGCTGATGGA 3011
Qy 601 TGCCTTGAACGACCAACTCTCAAGCAAAATGACCAAGCCATGATATCTGCAATTA 660
Db 3012 TGCCTTGAACGACCAACTCTCAAGCAAAATGACCAAGCCATGATATCTGCAATTA 3071
Qy 661 TAATGTTTGAACCACTATTTATGACCGCTGAGCAAGACAACTTTGGTCAAGCT 720
Db 3072 TAATGTTTGAACCACTATTTATGACCGCTGAGCAAGACAACTTTGGTCAAGCT 3131
Qy 721 CCCTCTGCGATGATATGATGTCGAACTGGCTCTGTAATGTTTATGATACGAGACGAA 780
Db 3132 CCCTCTGCGATGATATGATGTCGAACTGGCTCTGTAATGTTTATGATACGAGACGAA 3191
Qy 781 AGGAGGATCCGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 840
Db 3192 AGGAGGATCCGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3251
Qy 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACA 900
Db 3252 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGACA 3311
Qy 901 GCGAGAGCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 960
Db 3312 GCGAGAGCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3371
Qy 961 TGCATCTTTGGGGGAGTAACTTTGAGCCAAAGTCCGAGAGTCTCTCAATTTGCTAA 1020
Db 3372 TGCATCTTTGGGGGAGTAACTTTGAGCCAAAGTCCGAGAGTCTCTCAATTTGCTAA 3431
Qy 1021 TAAATACCCAGAGATCGAAGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1080
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Db 3432 TAATPAGCAGAGATCGAAGGCGCCTTCTTAGACTGATGAGACTGGAACCCCACTC 3491
Qy 1081 CATGGTGTGGTCCCGCTCTGCAACAGTGGCTGCTGCAAACTGCCAAGCATCAGCC 1140
Db 3492 CATGGTGTGGTCCCGCTCTGCAACAGTGGCTGCTGCAAACTGCCAAGCATCAGCC 3551
Qy 1141 CAAATGTAACTCGCAAGAGTGTCCAAATGATGATTCAGGTTCAAGAGTCTAAAGCA 1200
Db 3552 CAAATGTAACTCGCAAGAGTGTCCAAATGATGATTCAGGTTCAAGAGTCTAAAGCA 3611
Qy 1201 CTTTAATTTATGACATCTGCGCAAGGCTGTTTTTTCTGCTGAGTTGCAAAAGGCCATTA 1260
Db 3612 CTTTAATTTATGACATCTGCGCAAGGCTGTTTTTTCTGCTGAGTTGCAAAAGGCCATTA 3671
Qy 1261 AATGACATATCCCATGCTGGAAATATGCACTCCGACTACATCAGAGAAAGATTTCCGA 1320
Db 3672 AATGACATATCCCATGCTGGAAATATGCACTCCGACTACATCAGAGAAAGATTTCCGA 3731
Qy 1321 CTTTGCCCAAGGTACTTAAAAAACAAATTTGCAACCAAAAGTATTTTGGGAAGCATCCCG 1380
Db 3732 CTTTGCCCAAGGTACTTAAAAAACAAATTTGCAACCAAAAGTATTTTGGGAAGCATCCCG 3791
Qy 1381 AATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAGGGGGCAACAATGAACTCCCGAC 1440
Db 3792 AATGGGCTACCTGCGCAGTGCAGACTGTCTTAGAGGGGGCAACAATGAACTCCCGAC 3851
Qy 1441 AATGTAG 1447
Db 3852 AATGTAG 3858

RESULT 5

US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XINO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845, 416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200, 777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match 100.0%; Score 1447; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACCTTGAAGAAGCTCCAGAACTTCAAGAGCCACGATGAGCTGACCTCAAGCTGCG 60
Db 2553 GACCTTGAAGAAGCTCCAGAACTTCAAGAGCCACGATGAGCTGACCTCAAGCTGCG 2612
Qy 61 CCAAGCTGAGGTGATCAAGGGATCTGCGACGCCGTGGGCGATCTCCATTTAGTCTCT 120
Db 2613 CCAAGCTGAGGTGATCAAGGGATCTGCGACGCCGTGGGCGATCTCTCATTTGACTCTCT 2672
Qy 121 CCAAGATCACTCGAAGAGTCAAGGCACTTCAAGAGAAATTTGGCTCTGAAGAGAA 180
Db 2673 CCAAGATCACTCGAAGAGTCAAGGCACTTCAAGAGAAATTTGGCTCTGAAGAGAA 2732
Qy 181 CGTAGACCACTCAATGACCTTGTCTGCGCAAGCTTACCATTTGGGCAATTCAAGCTTCACC 240
Db 2733 CGTAGACCACTCAATGACCTTGTCTGCGCAAGCTTACCATTTGGGCAATTCAAGCTTCACC 2792

Qy 241 GTATPACCTGAGACTCTGGAAGACTTGAACCAAGATGAGAACTTTCAGAGTGGCCGT 300
Db 2793 GTATPACCTGAGACTCTGGAAGACTTGAACCAAGATGAGAACTTTCAGAGTGGCCGT 2852
Qy 301 CGAGGACCGAAGTCAAGGAGCTGCAATGAAGCCCAAGGGAATTTGGTCCAGCATCTCAGCA 360
Db 2853 CGAGGACCGAAGTCAAGGAGCTGCAATGAAGCCCAAGGGAATTTGGTCCAGCATCTCAGCA 2912
Qy 361 CTTTCTTTCCAGCTGTGTCAGAGGGTCCCTGGGAGAGAGCCATCTGCGCAAAAGTGGC 420
Db 2913 CTTTCTTTCCAGCTGTGTCAGAGGGTCCCTGGGAGAGAGCCATCTGCGCAAAAGTGGC 2972
Qy 421 CTTACTATATCAACAGACGACTCAAAACAACTTGTGAGGACCATCCCAAAATGACAGAGCT 480
Db 2973 CTTACTATATCAACAGACGACTCAAAACAACTTGTGAGGACCATCCCAAAATGACAGAGCT 3032
Qy 481 CTACAGTCTTTAGCTGACTGAATATGTCAATTTCAAGCTTATAGACTGCGCATGAA 540
Db 3033 CTACAGTCTTTAGCTGACTGAATATGTCAATTTCAAGCTTATAGACTGCGCATGAA 3092
Qy 541 ACTCGAAGACTGCAAGAGGCGCTTGTGGATCTCTTGAAGCTGTGAGCTGATGTA 600
Db 3093 ACTCGAAGACTGCAAGAGGCGCTTGTGGATCTCTTGAAGCTGTGAGCTGATGTA 3152
Qy 601 TGCCCTTGAGCAGACCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAAGATTAT 660
Db 3153 TGCCCTTGAGCAGACCAACCTCAAGCAAAATGACCAAGCCCATGATATCTGCAAGATTAT 3212
Qy 661 TAAATTTTGAACACTATTTATGACCGCTGAGAGAGACCAACAAATTTGTCACAGT 720
Db 3213 TAAATTTTGAACACTATTTATGACCGCTGAGAGAGACCAACAAATTTGTCACAGT 3272
Qy 721 CCGCTCTGCGGTGATTAATGTCTGAACTGGCTGCTGAATGTTATGTAAGGGGCGAAC 780
Db 3273 CCGCTCTGCGGTGATTAATGTCTGAACTGGCTGCTGAATGTTATGTAAGGGGCGAAC 3332
Qy 781 AGGAGAGTCCGTGCTCTCTTTTAAACATGCGATCATTTCCCTGTGTAAAGCACTTT 840
Db 3333 AGGAGAGTCCGTGCTCTCTTTTAAACATGCGATCATTTCCCTGTGTAAAGCACTTT 3392
Qy 841 GGAAGACAAATGACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 900
Db 3393 GGAAGACAAATGACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGACCA 3452
Qy 901 GCGCAGGCTGGGCTCTCTTTCAGATGATTTATCCAAATTCGAAGACAGTTGGGGTGAAGT 960
Db 3453 GCGCAGGCTGGGCTCTCTTTCAGATGATTTATCCAAATTCGAAGACAGTTGGGGTGAAGT 3512
Qy 961 TGCATCTTTTGGGGCAGTAACTTTGAGCCCAAGTGTCCGGAGCTGTCCAAATTTGCTTA 1020
Db 3513 TGCATCTTTTGGGGCAGTAACTTTGAGCCCAAGTGTCCGGAGCTGTCCAAATTTGCTTA 3572
Qy 1021 TAATPAGCAGAGATCGAAGGCGCTTCTTCTAGACTGATGAGACTGGAACCCCACTC 1080
Db 3573 TAATPAGCAGAGATCGAAGGCGCTTCTTCTAGACTGATGAGACTGGAACCCCACTC 3632
Qy 1081 CATGGTGTGGTCCCGCTCTGCAACAGTGGCTGCTGCAAAATCTGCCAAGCATCAGCC 1140
Db 3633 CATGGTGTGGTCCCGCTCTGCAACAGTGGCTGCTGCAAAATCTGCCAAGCATCAGCC 3692
Qy 1141 CAAATGTAACTCGCAAGAGTGTCCAAATGATGATTCAGGTTCAAGAGTCTAAAGCA 1200
Db 3693 CAAATGTAACTCGCAAGAGTGTCCAAATGATGATTCAGGTTCAAGAGTCTAAAGCA 3752
Qy 1201 CTTTAATTTATGACATCTGCGCAAGGCTGTTTTTTCTGCTGAGTTGCAAAAGGCCATTA 1260
Db 3753 CTTTAATTTATGACATCTGCGCAAGGCTGTTTTTTCTGCTGAGTTGCAAAAGGCCATTA 3812
Qy 1261 AATGACATATCCCATGCTGGAAATATGCACTCCGACTACATCAGAGAAAGATTTCCGA 1320
Db 3813 AATGACATATCCCATGCTGGAAATATGCACTCCGACTACATCAGAGAAAGATTTCCGA 3872
Qy 1321 CTTTGCCCAAGGTACTTAAAAAACAAATTTGCAACCAAAAGTATTTTGGGAAGCATCCCG 1380

Db 3873 CTTGCCAAGGTAATAAAACAAATTTCGAACCAAAAGTATTTTGGAGGATCTCCCG 3932
Qy 1381 AATGGGTAACCTGCAGGAGGAGAGCTGTTTGAAGGGGACAACATGAAACTCCGACAC 1440
Db 3933 AATGGGTAACCTGCAGGAGGAGAGCTGTTTGAAGGGGACAACATGAAACTCCGACAC 3932
Qy 1441 AATGTAG 1447
Db 3993 AATGTAG 3999

RESULT 6

US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DB1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1447; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACCTTGAAGACTCAAGAACTTCAAGAGGCAAGGATGAGCTGAGCTCAAGCTGCG 60
Db 2736 GACCTTGAAGACTCAAGAACTTCAAGAGGCAAGGATGAGCTGAGCTCAAGCTGCG 2736
Qy 61 CCAAGCTGAGTGAATCAAGGATCTGAGCAAGCTGAGCAATCTCTCATTTGACTCTCT 120
Db 2796 CCAAGCTGAGTGAATCAAGGATCTGAGCAAGCTGAGCAATCTCTCATTTGACTCTCT 2855
Qy 121 CCAAGATCACTCGAAGAACTCAAGGCACTTCGAGGAGAAATTCGCTCTGAAGGAA 180
Db 2856 CCAAGATCACTCGAAGAACTCAAGGCACTTCGAGGAGAAATTCGCTCTGAAGGAA 2915
Qy 181 CGTAGCCAGCTCAATGACTTGTCTGCGCACTTACCACTTGGGCAATTCAGCTCTGACC 240
Db 2916 CGTAGCCAGCTCAATGACTTGTCTGCGCACTTACCACTTGGGCAATTCAGCTCTGACC 2975
Qy 241 GTATTAACCTCGAGACTCGAAGAGCTGAACCACTGAGTGAAGCTTTCGAGGTGCGCT 300
Db 2976 GTATTAACCTCGAGACTCGAAGAGCTGAACCACTGAGTGAAGCTTTCGAGGTGCGCT 3035
Qy 301 CGAGAGCCGAGTCAAGGAGCTGATGAAGCCCAAGGGACTTGTGTCAGCATCTGAGA 360
Db 3036 CGAGAGCCGAGTCAAGGAGCTGATGAAGCCCAAGGGACTTGTGTCAGCATCTGAGA 3095
Qy 361 CTTTCTTTCCACGCTGCTCGAGGCTCCCTGGAGAGAGCCATTCGCCAAACAAAGTGGC 420
Db 3096 CTTTCTTTCCACGCTGCTCGAGGCTCCCTGGAGAGAGCCATTCGCCAAACAAAGTGGC 3155
Qy 421 CTACTATATCAACCAAGAGCTCAAACTTCTGAGGACCAATCCCAAAATGACAGAGCT 480
Db 3156 CTACTATATCAACCAAGAGCTCAAACTTCTGAGGACCAATCCCAAAATGACAGAGCT 3215
Qy 481 CTACCACTCTTTAGCTGAGCTGATTAATGTCAGATTTCTGAGTTATGAGACTGCCATGAA 540
Db 3216 CTACCACTCTTTAGCTGAGCTGATTAATGTCAGATTTCTGAGTTATGAGACTGCCATGAA 3275

Qy 541 ACTCCGAGAGTGCAGAAAGCCCTTGTGGATCTCTGAGCCCTGACAGCTGATGTA 600
Db 3276 ACTCCGAGAGTGCAGAAAGCCCTTGTGGATCTCTGAGCCCTGACAGCTGATGTA 3335
Qy 601 TGCCTTGAACCAAGCAACTTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTA 660
Db 3336 TGCCTTGAACCAAGCAACTTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTA 3395
Qy 661 TAATGTTGACCACTATTTATGACCGGCTGAGCAAGAGCAAAATTTGTCACGT 720
Db 3396 TAATGTTGACCACTATTTATGACCGGCTGAGCAAGAGCAAAATTTGTCACGT 3455
Qy 721 CCTCTCTGCGTGAATATGTCGTGAACCTGCTGCTGATATGTTATATACGGGACGAC 780
Db 3456 CCTCTCTGCGTGAATATGTCGTGAACCTGCTGCTGATATGTTATATACGGGACGAC 3515
Qy 781 AGGAGAGTCCGTCCTGCTTTTAAACTGCGATATTTCCCTGTGTAAGCACATTT 840
Db 3516 AGGAGAGTCCGTCCTGCTTTTAAACTGCGATATTTCCCTGTGTAAGCACATTT 3575
Qy 841 GGAAGACAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTGTGACCA 900
Db 3576 GGAAGACAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTGTGACCA 3635
Qy 901 GCGAGGCTGGGCTCCTCTTGTGATATTTATCCAAATTCGAAGCAGTTGGGTGAAGT 960
Db 3636 GCGAGGCTGGGCTCCTCTTGTGATATTTATCCAAATTCGAAGCAGTTGGGTGAAGT 3695
Qy 961 TGCATCTTTGGGGAGATTAACATTTAGCAAGTGTGCGAGAGTGTTCATTTGCTAA 1020
Db 3696 TGCATCTTTGGGGAGATTAACATTTAGCAAGTGTGCGAGAGTGTTCATTTGCTAA 3755
Qy 1021 TAATTAAGCCAGATATGAAGAGCGGCTCTTCTTCTGAATGAGACTGGAACCCCAAGTC 1080
Db 3756 TAATTAAGCCAGATATGAAGAGCGGCTCTTCTTCTGAATGAGACTGGAACCCCAAGTC 3815
Qy 1081 CATGTGTGAGTCCGCTGCTGCAAGAGTGTGCTGCAAGAACTGCAACAGATCAAGC 1140
Db 3816 CATGTGTGAGTCCGCTGCTGCAAGAGTGTGCTGCAAGAACTGCAACAGATCAAGC 3875
Qy 1141 CAAATGTAACTCTGCAAGAGTGTGCAATCATTTGATTCAGTACAGAGCTTAAGACA 1200
Db 3876 CAAATGTAACTCTGCAAGAGTGTGCAATCATTTGATTCAGTACAGAGCTTAAGACA 3935
Qy 1201 CTTTATTTATGACATCTGCAAGAGTGTGCTTTTCTGCTGAGTGTGCAAGAGCATTA 1260
Db 3936 CTTTATTTATGACATCTGCAAGAGTGTGCTTTTCTGCTGAGTGTGCAAGAGCATTA 3995
Qy 1261 AATGCACTATCCATGTGGAATATTTGCACTCCGACTACAGAGAGATGTTGAGA 1320
Db 3996 AATGCACTATCCATGTGGAATATTTGCACTCCGACTACAGAGAGATGTTGAGA 4055
Qy 1321 CTTTCCAAAGGTAATAAAACAAATTTCCGAACCAAAAGTATTTTGGAGCATCCCG 1380
Db 4056 CTTTCCAAAGGTAATAAAACAAATTTCCGAACCAAAAGTATTTTGGAGCATCCCG 4115
Qy 1381 AATGGCTAAGTGTGCAAGTGTCTTGAAGAGGGAACAATGAACTCCGACAC 1440
Db 4116 AATGGCTAAGTGTGCAAGTGTCTTGAAGAGGGAACAATGAACTCCGACAC 4175
Qy 1441 AATGTAG 1447
Db 4176 AATGTAG 4182

RESULT 7

US-09-845-416-32
; Sequence 32, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF

FILE REFERENCE: DE1142
 CURRENT APPLICATION NUMBER: US/09/845,416
 CURRENT FILING DATE: 2001-04-30
 PRIOR APPLICATION NUMBER: 60/200,777
 PRIOR FILING DATE: 2000-04-28
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: Patent Ver. 2.1
 SEQ ID NO 32
 LENGTH: 4414
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-845-416-32

Query Match 100.0%; Score 1447; DB 10; Length 4414;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACCTTGAAAGATCTCGAGAACTTCAGAGGCCACGATGAGCTGAGCTCAAGCTGCG 60
 2758 GACCTTGAAAGATCTCGAGAACTTCAGAGGCCACGATGAGCTGAGCTCAAGCTGCG 2817
 61 CCAAGCTGAGGATCAAGGATCTGCGAGGCCGATGCGGCGATCTCCATGACTCTCT 120
 2818 CCAAGCTGAGGATCAAGGATCTGCGAGGCCGATGCGGCGATCTCCATGACTCTCT 2877
 121 CCAAGATCACTCGAGAAAGTCAAGGACCTTCGAGAGAAATTGGGCTCTGAAAGAGA 180
 2878 CCAAGATCACTCGAGAAAGTCAAGGACCTTCGAGAGAAATTGGGCTCTGAAAGAGA 2937
 181 CGTGAGCACTGATGAGCTTGTCTGCGCAGCTTCACTTTGGGCAATTGAGCTCTCACC 240
 2938 CGTGAGCACTGATGAGCTTGTCTGCGCAGCTTCACTTTGGGCAATTGAGCTCTCACC 2997
 241 GATATACCTGAGCACTGAGAAAGCTTGAACACGATGAGAGCTTCGAGAGTGGCGCT 300
 2998 GATATACCTGAGCACTGAGAAAGCTTGAACACGATGAGAGCTTCGAGAGTGGCGCT 3057
 301 CGAGAGCCGAGTCAAGGACCTGATGAGGCCACGAGGACCTTGGTCCAGCATCTCAGCA 360
 3058 CGAGAGCCGAGTCAAGGACCTGATGAGGCCACGAGGACCTTGGTCCAGCATCTCAGCA 3117
 361 CTTTCTTTTCAAGTGTCTGTCAGAGGTCCTTGAGAGAGAGCCATCTGCGCAAAAGTGGC 420
 3118 CTTTCTTTTCAAGTGTCTGTCAGAGGTCCTTGAGAGAGAGCCATCTGCGCAAAAGTGGC 3177
 421 CTACTATATCAACCAAGAGCTCAAACTTGTCTGAGAGCCATCTCCAAATATGACAGAGT 480
 3178 CTACTATATCAACCAAGAGCTCAAACTTGTCTGAGAGCCATCTCCAAATATGACAGAGT 3237
 481 CTACAGCTTTAGCTGAGCTGATATGTCAGATTCTCAGCTTATAGGACTGCGCATGAA 540
 3238 CTACAGCTTTAGCTGAGCTGATATGTCAGATTCTCAGCTTATAGGACTGCGCATGAA 3297
 541 ACTCGGAAGCTGAGAAAGCCCTTGTCTGATCTTGTGAGCTGTGACGTGATGTA 600
 3298 ACTCGGAAGCTGAGAAAGCCCTTGTCTGATCTTGTGAGCTGTGACGTGATGTA 3357
 601 TGCCTTGAGACCAAGCACTTCAAGCAAAATGACAGGCCATGATATCTCGCAATAT 660
 3358 TGCCTTGAGACCAAGCACTTCAAGCAAAATGACAGGCCATGATATCTCGCAATAT 3417
 661 TAAATGTTGACCACTATTTATGACGCGCTGAGAGAGCAACAATTGGTCAAGCT 720
 3418 TAAATGTTGACCACTATTTATGACGCGCTGAGAGAGCAACAATTGGTCAAGCT 3477
 721 CCCTCTGCGTGAATATGTCTGAACCTGCTGCTGAATGTTATGATACGGAGCAAC 780
 3478 CCCTCTGCGTGAATATGTCTGAACCTGCTGCTGAATGTTATGATACGGAGCAAC 3537
 781 AGGAGAGATCCGTGCTGCTGCTTTTAAACTGGCATCATTTCCCTGCTGTAAGCATTT 840
 3538 AGGAGAGATCCGTGCTGCTGCTTTTAAACTGGCATCATTTCCCTGCTGTAAGCATTT 3597

841 GGAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 900
 3598 GGAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACCA 3657
 901 GGGGAGCTGGGCTCTCTTTCAGATGATTTCAATTCGAACAGTGGGAGAGT 960
 3658 GGGGAGCTGGGCTCTCTTTCAGATGATTTCAATTCGAACAGTGGGAGAGT 3717
 961 TGCATCTTTGGGGGAGTAACTTGAAGCCAAAGTGTCCGAGCTCTTCAATTTGCTAA 1020
 3718 TGCATCTTTGGGGGAGTAACTTGAAGCCAAAGTGTCCGAGCTCTTCAATTTGCTAA 3777
 1021 TAAATAGCCAGATGAGAGGCGCTTCTTCTAGACGTGATGAGCTGGAACCCCACTC 1080
 3778 TAAATAGCCAGATGAGAGGCGCTTCTTCTAGACGTGATGAGCTGGAACCCCACTC 3837
 1081 CATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
 3838 CATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3897
 1141 CAAATGTAACTCTGCAAGAGTGTCAATCATTTGATTCAGGTACAGAGCTTAAAGCA 1200
 3898 CAAATGTAACTCTGCAAGAGTGTCAATCATTTGATTCAGGTACAGAGCTTAAAGCA 3957
 1201 CTTTATTTATGACATCTGCAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCAATTA 1260
 3958 CTTTATTTATGACATCTGCAAGCTGCTTTTCTGCTGAGTTGCAAAAGGCAATTA 4017
 1261 AATGACATATCCCATGAGTGAATATTGCACTCCGATCATCAGAGAGAGATGTTGAGA 1320
 4018 AATGACATATCCCATGAGTGAATATTGCACTCCGATCATCAGAGAGAGATGTTGAGA 4077
 1321 CTTTCCAAAGGATCTTAAATAAATAATTTGCAACCAAAAGTATTTTGGGAGATCCCG 1380
 4078 CTTTCCAAAGGATCTTAAATAAATAATTTGCAACCAAAAGTATTTTGGGAGATCCCG 4137
 1381 AATGGGCTACCTGCAAGTCAAGTGTCTTGAAGGGGAGCAACATGAGAACTCCGAGAC 1440
 4138 AATGGGCTACCTGCAAGTCAAGTGTCTTGAAGGGGAGCAACATGAGAACTCCGAGAC 4197
 1441 AATGTAG 1447
 4198 AATGTAG 4204

RESULT 8
 US-09-845-416-31
 ; Sequence 31, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; TITLE OF INVENTION: THEREOF
 ; FILE REFERENCE: DE1142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; CURRENT FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; PRIOR FILING DATE: 2000-04-28
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: Patent Ver. 2.1
 ; SEQ ID NO 31
 ; LENGTH: 4476
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-845-416-31

Query Match 100.0%; Score 1447; DB 10; Length 4476;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACCTTGAAAGATCTCGAGAACTTCAGAGGCCACGATGAGCTGAGCTCAAGCTGCG 60
 2820 GACCTTGAAAGATCTCGAGAACTTCAGAGGCCACGATGAGCTGAGCTCAAGCTGCG 2879

QY 61 CCAAGCTGAGTGTATCAAGGATCCGAGAGCCCGTGGCCATCTCTCTCACTTGACTCTCT 120
 DB 2880 CCAAGCTGAGTGTATCAAGGATCCGAGAGCCCGTGGCCATCTCTCTCACTTGACTCTCT 2939
 QY 121 CCAAGTATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTTGGCCCTCGAAAGGAA 180
 DB 2940 CCAAGTATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTTGGCCCTCGAAAGGAA 2999
 QY 181 CGTAGCCACGTCAATGACCTTGCTCCGACGTTACCTTTGGGCAATTCAGCTTCACC 240
 DB 3000 CGTAGCCACGTCAATGACCTTGCTCCGACGTTACCTTTGGGCAATTCAGCTTCACC 3059
 QY 241 GTATTAACCTCAGACCTTCGAGAAAGCTGAACACCGAGATGAGAGCTTCGAGAGGCGCT 300
 DB 3060 GTATTAACCTCAGACCTTCGAGAAAGCTGAACACCGAGATGAGAGCTTCGAGAGGCGCT 3119
 QY 301 CGAGAGCCGAGTCAAGGAGCTGCAAGAACCTGAGAACGAGATGAGAGCTTCGAGAGGCGCT 360
 DB 3120 CGAGAGCCGAGTCAAGGAGCTGCAAGAACCTGAGAACGAGATGAGAGCTTCGAGAGGCGCT 3179
 QY 361 CTTTCTTTTCAAGTCTGTCAGAGGTCCTGAGAGAGAGCCATCTCCGCAAAAGGCGC 420
 DB 3180 CTTTCTTTTCAAGTCTGTCAGAGGTCCTGAGAGAGAGCCATCTCCGCAAAAGGCGC 3239
 QY 421 CTACTATATCAACGAGACTCAAAACAATTGCTGGACCATCCCAAAATGACAGAGCT 480
 DB 3240 CTACTATATCAACGAGACTCAAAACAATTGCTGGACCATCCCAAAATGACAGAGCT 3299
 QY 481 CTACCACTTTTATGCTGATGATTAATGATGATGATGATGATGATGATGATGATGATGAT 540
 DB 3300 CTACCACTTTTATGCTGATGATTAATGATGATGATGATGATGATGATGATGATGATGAT 3359
 QY 541 ACTCCGAAAGCTGCAAGAGCCCTTTGCTTGAATCTCTTGAAGCTGTCAGTGCATGTA 600
 DB 3360 ACTCCGAAAGCTGCAAGAGCCCTTTGCTTGAATCTCTTGAAGCTGTCAGTGCATGTA 3419
 QY 601 TGCCTTGAACGACCAACACTCAAGCAATGACCGCCATGATGATGATGATGATGATGAT 660
 DB 3420 TGCCTTGAACGACCAACACTCAAGCAATGACCGCCATGATGATGATGATGATGATGAT 3479
 QY 661 TATTTGTTGACCACTAATTTATGACCGCTGAGAGAGACCAACAATTTGGTCAAGT 720
 DB 3480 TATTTGTTGACCACTAATTTATGACCGCTGAGAGAGACCAACAATTTGGTCAAGT 3539
 QY 721 CCCTCTCTGCTGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
 DB 3540 CCCTCTCTGCTGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3599
 QY 781 AAGGAGATCCGTCCTGCTTTTAAACTGGCATCAATTCCTGCTGAAGACATTT 840
 DB 3600 AAGGAGATCCGTCCTGCTTTTAAACTGGCATCAATTCCTGCTGAAGACATTT 3659
 QY 841 GGAAGACAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACA 900
 DB 3660 GGAAGACAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACA 3719
 QY 901 GGGGAGCTGGGCTCTTCTGCAATGATCTATCAAAATTCAGACAGTGGGTGAAGT 960
 DB 3720 GGGGAGCTGGGCTCTTCTGCAATGATCTATCAAAATTCAGACAGTGGGTGAAGT 3779
 QY 961 TGCATCTCTTGGGGAGTACATTTGAGCCAGTCCGAGCTGCTTCCAAATTTGCTAA 1020
 DB 3780 TGCATCTCTTGGGGAGTACATTTGAGCCAGTCCGAGCTGCTTCCAAATTTGCTAA 3839
 QY 1021 TAAATTAACGAGATGAGAGGCGCTCTTCTGAGATGAGATGAGATGAGATGAGATGAGAT 1080
 DB 3840 TAAATTAACGAGATGAGAGGCGCTCTTCTGAGATGAGATGAGATGAGATGAGATGAGAT 3899
 QY 1081 CATGCTGAGCTGCGCTCTGCAAGAGTGGCTGTCGCAAACTGCAAGCATCAGGC 1140
 DB 3900 CATGCTGAGCTGCGCTCTGCAAGAGTGGCTGTCGCAAACTGCAAGCATCAGGC 3959

QY 1141 CAATGTAAATCTGGAAGAGTGTCCATATCTTGAATTCAGATACAGAGTCTAAAGCA 1200
 DB 3960 CAATGTAAATCTGGAAGAGTGTCCATATCTTGAATTCAGATACAGAGTCTAAAGCA 4019
 QY 1201 CTTTAAATTAATGACATCTGCAAGGCTGCTTTTCTGCTGAGTGTGAAAGGCGCTAA 1260
 DB 4020 CTTTAAATTAATGACATCTGCAAGGCTGCTTTTCTGCTGAGTGTGAAAGGCGCTAA 4079
 QY 1261 AATGACATATCCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1320
 DB 4080 AATGACATATCCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4139
 QY 1321 CTTTCCAAAGTACTTAAATAAATAATTCGAACCAAAAGGATTTTCCGAAGATCCCGC 1380
 DB 4140 CTTTCCAAAGTACTTAAATAAATAATTCGAACCAAAAGGATTTTCCGAAGATCCCGC 4199
 QY 1381 AATGGCTACTCTGCGACGTCGACGACTGCTTTAGAGGGGGAACAATGAAATCTCCGAC 1440
 DB 4200 AATGGCTACTCTGCGACGTCGACGACTGCTTTAGAGGGGGAACAATGAAATCTCCGAC 4259
 QY 1441 AATGTAG 1447
 DB 4260 AATGTAG 4266

RESULT 9
 US-09-845-416-30
 ; Sequence 30, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; FILE REFERENCE: DEL142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIOR FILING DATE: 60/200,777
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 30
 ; LENGTH: 4498
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-845-416-30

Query Match 100.0%; Score 1447; DB 10; Length 4498;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCTTGAAGAAGCTCCAGAACTTCAAGAGGCGCAAGATGAGTGAAGCTTCAAGCTGCG 60
 DB 2842 GACCTTGAAGAAGCTCCAGAACTTCAAGAGGCGCAAGATGAGTGAAGCTTCAAGCTGCG 2901
 QY 61 CCAAGCTAAGTATCAAGGATCTGCAAGCCCGTGGGAGATCTCTCAATGATCTCT 120
 DB 2902 CCAAGCTAAGTATCAAGGATCTGCAAGCCCGTGGGAGATCTCTCAATGATCTCT 2961
 QY 121 CCAAGATCACTCGAAGAAAGTCAAGGACCTTGAAGAGAAATTTGCGCTCTGAAGAGAA 180
 DB 2962 CCAAGATCACTCGAAGAAAGTCAAGGACCTTGAAGAGAAATTTGCGCTCTGAAGAGAA 3021
 QY 181 CGTAGCCAGTCAATGACCTTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCACC 240
 DB 3022 CGTAGCCAGTCAATGACCTTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCACC 3081
 QY 241 GTATTAACCTCAGACCTTCGAGAAAGCTTGAACACCAAGTGAAGCTTTCAGAGTGGCGT 300
 DB 3082 GTATTAACCTCAGACCTTCGAGAAAGCTTGAACACCAAGTGAAGCTTTCAGAGTGGCGT 3141
 QY 301 CGAGGACGAGTCAAGCAGCTGATGAAGCCCAAGGAGCTTTGGTCAAGCATTCACGA 360
 DB 3142 CGAGGACGAGTCAAGCAGCTGATGAAGCCCAAGGAGCTTTGGTCAAGCATTCACGA 3201

QY 361 CTTTCTTTCACGTCGTGTCACAGGGTCCCTGGAGAGAGCCATCTGCGCAACAAAGTGC 420
DB 3202 CTTTCTTTCACGTCGTGTCACAGGGTCCCTGGAGAGAGCCATCTGCGCAACAAAGTGC 3261
QY 421 CTACTATATCAACGACGAGACTCAACAACTTGTGGGACCATCCCAAAATGACAGAGCT 480
DB 3262 CTACTATATCAACGACGAGACTCAACAACTTGTGGGACCATCCCAAAATGACAGAGCT 3321
QY 481 CTACCAAGCTTTAGCTGACCTGCAATTAATGTCAGATTCTCAGCTTTATAGACCTGCCATGAA 540
DB 3322 CTACCAAGCTTTAGCTGACCTGCAATTAATGTCAGATTCTCAGCTTTATAGACCTGCCATGAA 3381
QY 541 ACTCCGAAGACTGACGAAGAGCCCTTGTGCTTGGATCTCTTGAAGCTGTGACGTGATGTA 600
DB 3382 ACTCCGAAGACTGACGAAGAGCCCTTGTGCTTGGATCTCTTGAAGCTGTGACGTGATGTA 3441
QY 601 TGCCTTGGACGACCAACCTCAGCAAAATGACCAAGCCCATGATATCTGCAAGATTAT 660
DB 3442 TGCCTTGGACGACCAACCTCAGCAAAATGACCAAGCCCATGATATCTGCAAGATTAT 3501
QY 661 TAAATGTTGACCACTATTTATGACCGCTGAGACGAAGACCAACATTTGTCACGT 720
DB 3502 TAAATGTTGACCACTATTTATGACCGCTGAGACGAAGACCAACATTTGTCACGT 3561
QY 721 CCTCTCTGCGTGGATATGTCCTGAACTGCGTGGCAATGTTTATGATACGGAGCAAC 780
DB 3562 CCTCTCTGCGTGGATATGTCCTGAACTGCGTGGCAATGTTTATGATACGGAGCAAC 3621
QY 781 AGGAGAGATCCGTGTCTGTCTTTTAAAACTGCGCATCATTTCCCTGTGTAAAGCAATT 840
DB 3622 AGGAGAGATCCGTGTCTGTCTTTTAAAACTGCGCATCATTTCCCTGTGTAAAGCAATT 3681
QY 841 GGAAGACAAATGACATACCTTTTCAAGCAAGTGGCAAGTTCAACGATTTTGTGACCA 900
DB 3682 GGAAGACAAATGACATACCTTTTCAAGCAAGTGGCAAGTTCAACGATTTTGTGACCA 3741
QY 901 GCGCAGGCTGGGCGCTCTTCTGATGATTTCTATCCAAATTCAGACAGAGTGGGTAAGT 960
DB 3742 GCGCAGGCTGGGCGCTCTTCTGATGATTTCTATCCAAATTCAGACAGAGTGGGTAAGT 3801
QY 961 TGCATCTCTTGGGGGACATTAACATTAAGCAAGTCCGAGAGCTCTTCAATTTGCTAA 1020
DB 3802 TGCATCTCTTGGGGGACATTAACATTAAGCAAGTCCGAGAGCTCTTCAATTTGCTAA 3861
QY 1021 TAAATAGCAGATGCAAGCGCCCTTCTTCTAAGCTGATGAGATGCAAGCCCAAGTC 1080
DB 3862 TAAATAGCAGATGCAAGCGCCCTTCTTCTAAGCTGATGAGATGCAAGCCCAAGTC 3921
QY 1081 CATGGTGTGGGCGCCGCTCTGCAAGAGTGGCTGCGAAGAACTGCGCAAGCATCAGGC 1140
DB 3922 CATGGTGTGGGCGCCGCTCTGCAAGAGTGGCTGCGAAGAACTGCGCAAGCATCAGGC 3981
QY 1141 CAAATGTAACATCTGCAAGAGTGTCAATCAATGATTCAGAGTCAAGAGTCTAAAGCA 1200
DB 3982 CAAATGTAACATCTGCAAGAGTGTCAATCAATGATTCAGAGTCAAGAGTCTAAAGCA 4041
QY 1201 CTTTAAATATGACATCTGCAAGAGTGTCTTTTCTGCTGAGTTGCAAAAGGCCATPA 1260
DB 4042 CTTTAAATATGACATCTGCAAGAGTGTCTTTTCTGCTGAGTTGCAAAAGGCCATPA 4101
QY 1261 AATGACATATCCATGAGTGAATATGCACTCCGACTCATGAGAGAAAGTTCGAGA 1320
DB 4102 AATGACATATCCATGAGTGAATATGCACTCCGACTCATGAGAGAAAGTTCGAGA 4161
QY 1321 CTTTGGCAAGGTAATTAATAAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCG 1380
DB 4162 CTTTGGCAAGGTAATTAATAAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCG 4221
QY 1381 AATGGGCTAAGCTGCAAGTGTCTTGAAGGGGCAACATGAAATCTCCGACAC 1440
DB 4222 AATGGGCTAAGCTGCAAGTGTCTTGAAGGGGCAACATGAAATCTCCGACAC 4281

QY 1441 AATGTAG 1447
DB 4282 AATGTAG 4288

RESULT 10
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1447; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCCCTTGAAGACTCCAGAACTTCAAGAGGCAAGATGATGAGCTCAAGCTGCG 60
DB 3169 GACCCCTTGAAGACTCCAGAACTTCAAGAGGCAAGATGATGAGCTCAAGCTGCG 3228
QY 61 CCAAGCTAGGTGATCAAGAGATCTGAGAGCCGCTGGGCGCATCTCTCATTTGACTCT 120
DB 3229 CCAAGCTAGGTGATCAAGAGATCTGAGAGCCGCTGGGCGCATCTCTCATTTGACTCT 3288
QY 121 CCAAGTACCTCGAAGAGTCAAGGCACTTCAAGAGAAATTTGGGCTCGAAGAGAA 180
DB 3289 CCAAGTACCTCGAAGAGTCAAGGCACTTCAAGAGAAATTTGGGCTCGAAGAGAA 3348
QY 181 CGTAGGACGATCAATGACTTTGCTGCGCAGCTTACCACTTTGGGCACTTCAAGCTTCAAC 240
DB 3349 CGTAGGACGATCAATGACTTTGCTGCGCAGCTTACCACTTTGGGCACTTCAAGCTTCAAC 3408
QY 241 GTATTAACCTGACACTTGAAGACCTGAACACCAAGATGAAGCTTGTGCAAGTGGCGCT 300
DB 3409 GTATTAACCTGACACTTGAAGACCTGAACACCAAGATGAAGCTTGTGCAAGTGGCGCT 3468
QY 301 CGAGGACCGAGTCAAGGCTGCTGATGAAGCCCAAGGAGCTTTGGTCCAGATCTCAGCA 360
DB 3469 CGAGGACCGAGTCAAGGCTGCTGATGAAGCCCAAGGAGCTTTGGTCCAGATCTCAGCA 3528
QY 361 CTTTCTTCCAGCTGTGTCAGAGGTCCTGGAGAGAGCACTTGCAGCAAAAGTGC 420
DB 3529 CTTTCTTCCAGCTGTGTCAGAGGTCCTGGAGAGAGCACTTGCAGCAAAAGTGC 3588
QY 421 CTACTATATCAACGAGACTCAACAACTTGTGGGACCATCCCAAAATGACAGAGCT 480
DB 3589 CTACTATATCAACGAGACTCAACAACTTGTGGGACCATCCCAAAATGACAGAGCT 3648
QY 481 CTACCAAGCTTTAGCTGACCTGCAATTAATGTCAGATTCTCAGCTTTATAGACCTGCCATGAA 540
DB 3649 CTACCAAGCTTTAGCTGACCTGCAATTAATGTCAGATTCTCAGCTTTATAGACCTGCCATGAA 3708
QY 541 ACTCCGAAGACTGACGAAGAGCCCTTGTGCTTGGATCTCTTGAAGCTGTGACGTGATGTA 600
DB 3709 ACTCCGAAGACTGACGAAGAGCCCTTGTGCTTGGATCTCTTGAAGCTGTGACGTGATGTA 3768
QY 601 TGCCTTGGACGACCAACCTCAGCAAAATGACCAAGCCCATGATATCTGCAAGATTAT 660
DB 3769 TGCCTTGGACGACCAACCTCAGCAAAATGACCAAGCCCATGATATCTGCAAGATTAT 3828

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OY 661 TAAATGTTGACCACTATTTATGACCGCTGAGGAGCAACAAATTTGTCACACT 720
    |||
Db 3829 TAAATGTTGACCACTATTTATGACCGCTGAGGAGCAACAAATTTGTCACACT 3888
OY 721 CCTCTCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
    |||
Db 3889 CCTCTCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3948
OY 781 AGGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
    |||
Db 3949 AGGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4008
OY 841 GGAAGCAAGTACAGATACCTTTTCAAGAGTGGCAAGTTCACAGAGATTTTGGACA 900
    |||
Db 4009 GGAAGCAAGTACAGATACCTTTTCAAGAGTGGCAAGTTCACAGAGATTTTGGACA 4068
OY 901 GCGCAGGCTGGGCTCTCTGCTGCAATGATTCCTCAATTCACAGAGTGGTGAAGT 960
    |||
Db 4069 GCGCAGGCTGGGCTCTCTGCTGCAATGATTCCTCAATTCACAGAGTGGTGAAGT 4128
OY 961 TGCATCTTTGGGGGAGTAACTTTGAGCCAGAGTGCAGAGTGCCTTCAATTTGCTAA 1020
    |||
Db 4129 TGCATCTTTGGGGGAGTAACTTTGAGCCAGAGTGCAGAGTGCCTTCAATTTGCTAA 4188
OY 1021 TAAATAGCCAGAGTCCAGAGGCGCTCTTCTGATGATGATGATGATGATGATGATGAT 1080
    |||
Db 4189 TAAATAGCCAGAGTCCAGAGGCGCTCTTCTGATGATGATGATGATGATGATGATGAT 4248
OY 1081 CATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
    |||
Db 4249 CATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4308
OY 1141 CAAATGTAACATCTGCAAAAGTGTCCATCATTTGATTCAGATACAGAGTCTAAAGA 1200
    |||
Db 4309 CAAATGTAACATCTGCAAAAGTGTCCATCATTTGATTCAGATACAGAGTCTAAAGA 4368
OY 1201 CTTTAAATTAATGACATCTGCAAAAGTGTCTTCTGATGATGATGATGATGATGAT 1260
    |||
Db 4369 CTTTAAATTAATGACATCTGCAAAAGTGTCTTCTGATGATGATGATGATGATGAT 4428
OY 1261 AATGCACTATCCAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1320
    |||
Db 4429 AATGCACTATCCAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4488
OY 1321 CTTTGCAAGTATCTAAATAAAACAATTTGCAACCAAAAGTATTTTGGAGACATCCCCG 1380
    |||
Db 4489 CTTTGCAAGTATCTAAATAAAACAATTTGCAACCAAAAGTATTTTGGAGACATCCCCG 4548
OY 1381 AATGGCTACCTGCGAGGAGCACTGCTTGAAGGGGAGCAACATGAAACTCCGACAC 1440
    |||
Db 4549 AATGGCTACCTGCGAGGAGCACTGCTTGAAGGGGAGCAACATGAAACTCCGACAC 4608
OY 1441 AATGTAG 1447
    |||
Db 4609 AATGTAG 4615
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RESULT 11

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US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: D31142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR APPLICATION NUMBER: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
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; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match      100.0%; Score 1447; DB 10; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GACCTTGAAGACTCCAGAACTTCAAGAGCCACGAGAGCTGAGCTCAAGCTGCG 60
    |||
Db 3192 GACCTTGAAGACTCCAGAACTTCAAGAGCCACGAGAGCTGAGCTCAAGCTGCG 3251
OY 61 CCAAGCTGAGGTATCAAGAGATCTGCGAGCCCTGCGAGATCTCTCAATTAAGTCTCT 120
    |||
Db 3252 CCAAGCTGAGGTATCAAGAGATCTGCGAGCCCTGCGAGATCTCTCAATTAAGTCTCT 3311
OY 121 CCAAGATCACTCGAAGAAAGTCAAGGACCTTCAAGAGAAATTTGGGCTGAAAGAA 180
    |||
Db 3312 CCAAGATCACTCGAAGAAAGTCAAGGACCTTCAAGAGAAATTTGGGCTGAAAGAA 3371
OY 181 CGTAGCCAGTCAATGATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
    |||
Db 3372 CGTAGCCAGTCAATGATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3431
OY 241 GTATTAACCTGAGACCTTGAAGACCTGAAACACAGATGGAAGCTTTCAGAGTGGCGGT 300
    |||
Db 3432 GTATTAACCTGAGACCTTGAAGACCTGAAACACAGATGGAAGCTTTCAGAGTGGCGGT 3491
OY 301 CGAGAACCGAGTACAGGACCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
    |||
Db 3492 CGAGAACCGAGTACAGGACCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 3551
OY 361 CTTTCTTTTCCAGCTCTGTCAGAGGTCCTCTGAGAGAGAGCAATCTGCAAAAGTGGC 420
    |||
Db 3552 CTTTCTTTTCCAGCTCTGTCAGAGGTCCTCTGAGAGAGAGCAATCTGCAAAAGTGGC 3611
OY 421 CTACTATATCAACACAGAGACTCAAAACAATTTGCTGGAGACCATCCAAATGACAGAGCT 480
    |||
Db 3612 CTACTATATCAACACAGAGACTCAAAACAATTTGCTGGAGACCATCCAAATGACAGAGCT 3671
OY 481 CTACAGCTTTTAACTGATCTGATTAATGATGATGATGATGATGATGATGATGATGATGAT 540
    |||
Db 3672 CTACAGCTTTTAACTGATCTGATTAATGATGATGATGATGATGATGATGATGATGATGAT 3731
OY 541 ACTCGAAGAGCTGCAAGAGGCTTTGCTTGGATCTCTTGAAGCTGTCAGCTCATGTGA 600
    |||
Db 3732 ACTCGAAGAGCTGCAAGAGGCTTTGCTTGGATCTCTTGAAGCTGTCAGCTCATGTGA 3791
OY 601 TGCCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGAGATTCCTGCAATTAAT 660
    |||
Db 3792 TGCCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGAGATTCCTGCAATTAAT 3851
OY 661 TAAATGTTGACCACTATTTATGACCGCTGAGGAGCAACAAATTTGTCACACT 720
    |||
Db 3852 TAAATGTTGACCACTATTTATGACCGCTGAGGAGCAACAAATTTGTCACACT 3911
OY 721 CCTCTCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
    |||
Db 3912 CCTCTCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3971
OY 781 AGGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
    |||
Db 3972 AGGAGAGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4031
OY 841 GGAAGCAAGTACAGATACCTTTTCAAGAGTGGCAAGTTCACAGAGATTTTGGACA 900
    |||
Db 4032 GGAAGCAAGTACAGATACCTTTTCAAGAGTGGCAAGTTCACAGAGATTTTGGACA 4091
OY 901 GCGCAGGCTGGGCTCTCTGCTGCAATGATTCCTCAATTCACAGAGTGGTGAAGT 960
    |||
Db 4092 GCGCAGGCTGGGCTCTCTGCTGCAATGATTCCTCAATTCACAGAGTGGTGAAGT 4151
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QY 961 TGCAATCTTTGGGGCAGTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020
Db 4152 TGCAATCTTTGGGGCAGTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 4211
QY 1021 TAAATAGCAGAGATCGAAGGCGCTCTTCTTAGACTGAGTGAAGTCCCACTC 1080
Db 4212 TAAATAGCAGAGATCGAAGGCGCTCTTCTTAGACTGAGTGAAGTCCCACTC 4271
QY 1081 CATGTGTGCTGCCCCCTCTGCAAGAGTGTCTGCAAAAACCTGCCAAGCATCAAGC 1140
Db 4272 CATGTGTGCTGCCCCCTCTGCAAGAGTGTCTGCAAAAACCTGCCAAGCATCAAGC 4331
QY 1141 CAAATGTAACTGCAAAAGAGTGTCAATCAATGATTCAGTTCAGAGATCTAAAGCA 1200
Db 4332 CAAATGTAACTGCAAAAGAGTGTCAATCAATGATTCAGTTCAGAGATCTAAAGCA 4391
QY 1201 CTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGTGAGTTCGAAAAGGCCATTA 1260
Db 4392 CTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGTGAGTTCGAAAAGGCCATTA 4451
QY 1261 AATGACATATCCCATGTGTGAATATGCACTCCGACTCATCAGAGAAAGTTCGAGA 1320
Db 4452 AATGACATATCCCATGTGTGAATATGCACTCCGACTCATCAGAGAAAGTTCGAGA 4511
QY 1321 CTTTGCCAAAGGTACTAAAAAACTTTGCAACCAAAAGTATTTTGGAAAGCATCCCG 1380
Db 4512 CTTTGCCAAAGGTACTAAAAAACTTTGCAACCAAAAGTATTTTGGAAAGCATCCCG 4571
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGCAACATGAAAACCTCCGAC 1440
Db 4572 AATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGCAACATGAAAACCTCCGAC 4631
QY 1441 AATGTAG 1447
Db 4632 AATGTAG 4638

RESULT 12
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1447; DB 10; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GACCCCTGAAAGACTCGAAGACTTCAAGAGCCAGATGAGCTGGAACCTCAAGCTCG 60
Db 3310 GACCCCTGAAAGACTCGAAGACTTCAAGAGCCAGATGAGCTGGAACCTCAAGCTCG 3369
QY 61 CCAAGCTAGGATCAAGGATCTCTGCAAGCCGCTGGCGCATCTCCATTTGACTCTCT 120
Db 3370 CCAAGCTAGGATCAAGGATCTCTGCAAGCCGCTGGCGCATCTCTCATTTGACTCTCT 3429
QY 121 CCAAGATCACTCGAAGAGTCAAGGCACTTGAAGAGAAATTCGCTCGAAGAGAGA 180

Db 3430 CCAAGATCACTCGAAGAGTCAAGGCACTTGAAGAGAAATTCGCTCGAAGAGAGA 3489
QY 181 CGTAGGACAGTCAATGACTTGTGCGCAGCTTACCACTTTGGGACATTCAGCTCACC 240
Db 3490 CGTAGGACAGTCAATGACTTGTGCGCAGCTTACCACTTTGGGACATTCAGCTCACC 3549
QY 241 GTATTAACCTCAGACTCTGGAAGACTGAAACCAAGATGAAAGCTTTCAGAGTGGCCGT 300
Db 3550 GTATTAACCTCAGACTCTGGAAGACTGAAACCAAGATGAAAGCTTTCAGAGTGGCCGT 3609
QY 301 CGAGGACCGAGTCAAGGAGCTGCAATGAAGCCCAAGGACCTTTGGTCCAGACTTCAGCA 360
Db 3610 CGAGGACCGAGTCAAGGAGCTGCAATGAAGCCCAAGGACCTTTGGTCCAGACTTCAGCA 3669
QY 361 CTTTCTTTCCAGTCTGTCCAGGGGCTCTGGGAGAGGACCATCTTCCCAAAAGTCC 420
Db 3670 CTTTCTTTCCAGTCTGTCCAGGGGCTCTGGGAGAGGACCATCTTCCCAAAAGTCC 3729
QY 421 CTACTATATCAACGACGACTCAAAACAACTTGTGGGACCATCCCAAAATGACAGAGCT 480
Db 3730 CTACTATATCAACGACGACTCAAAACAACTTGTGGGACCATCCCAAAATGACAGAGCT 3789
QY 481 CTACCAAGCTTTAGCTGACTGAATATGTCAGATTTCTACCTTATAGACTGCCATGA 540
Db 3790 CTACCAAGCTTTAGCTGACTGAATATGTCAGATTTCTACCTTATAGACTGCCATGA 3849
QY 541 ACTCGAAGACTGCAAGAGGCTTGTGATCTCTGAGCCGTGAGCTGCACTGCA 600
Db 3850 ACTCGAAGACTGCAAGAGGCTTGTGATCTCTGAGCCGTGAGCTGCACTGCA 3909
QY 601 TGCCCTTGACAGGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGCAATTA 660
Db 3910 TGCCCTTGACAGGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGCAATTA 3969
QY 661 TAAATGTTGACCACTATTATGACCGCTGAGAGCAAGCAACAATTTGGTAAAGT 720
Db 3970 TAAATGTTGACCACTATTATGACCGCTGAGAGCAAGCAACAATTTGGTAAAGT 4029
QY 721 CCGTCTCGGCGGATATGATGCTGAATGAGCTGCAATGTTATGATAGGGGAGAAC 780
Db 4030 CCGTCTCGGCGGATATGATGCTGAATGAGCTGCAATGTTATGATAGGGGAGAAC 4089
QY 781 AGGAGATCCGCTGCTCTTTTAAACATGCAATCTTCCCTGTGTAAGCACTTT 840
Db 4090 AGGAGATCCGCTGCTCTTTTAAACATGCAATCTTCCCTGTGTAAGCACTTT 4149
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGACCA 900
Db 4150 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGACCA 4209
QY 901 GCGCAGGCTGGGCTCTCTTCTGCAATGATTTTCAAAATTCCAAGACAGTTGGGTGAAGT 960
Db 4210 GCGCAGGCTGGGCTCTCTTCTGCAATGATTTTCAAAATTCCAAGACAGTTGGGTGAAGT 4269
QY 961 TGCAATCTTTGGGGCAGTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 1020
Db 4270 TGCAATCTTTGGGGCAGTAATGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAA 4329
QY 1021 TAAATAGCAGAGATCGAAGGCGCTCTTCTTAGACTGAGTGAAGTCCCACTC 1080
Db 4330 TAAATAGCAGAGATCGAAGGCGCTCTTCTTAGACTGAGTGAAGTCCCACTC 4389
QY 1081 CATGTGTGCTGCCCCCTCTGCAAGAGTGTCTGCAAAAACCTGCCAAGCATCAAGC 1140
Db 4390 CATGTGTGCTGCCCCCTCTGCAAGAGTGTCTGCAAAAACCTGCCAAGCATCAAGC 4449
QY 1141 CAAATGTAACTGCAAAAGAGTGTCAATCAATGATTCAGTTCAGAGATCTAAAGCA 1200
Db 4450 CAAATGTAACTGCAAAAGAGTGTCAATCAATGATTCAGTTCAGAGATCTAAAGCA 4509
QY 1201 CTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGTGAGTTCGAAAAGGCCATTA 1260
Db 4510 CTTTAATTATGACATCTGCAAAAGCTGCTTTTCTGTGAGTTCGAAAAGGCCATTA 4569

QY 1261 AATGCAATATCCAGTGTGAAATATTTGCACTCCGACTACATCAGAGAGAATGTTGAGA 1320
| | | | |
Db 4570 AATGACTATCCAGTGTGAAATATTTGCACTCCGACTACATCAGAGAGAATGTTGAGA 4629
| | | | |
QY 1321 CTTTGCCAGGTACTAAAAAACAATTTGAAACCAAAAGTATTTTGGGAAGATCCCCG 1380
| | | | |
Db 4630 CTTTGCCAGGTACTAAAAAACAATTTGAAACCAAAAGTATTTTGGGAAGATCCCCG 4689
| | | | |
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGGACAAACATGAAACCTCCGACAC 1440
| | | | |
Db 4680 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGGACAAACATGAAACCTCCGACAC 4749
| | | | |
QY 1441 AATGTAG 1447
| | | | |
Db 4750 AATGTAG 4756
| | | | |

RESULT 13

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1447; DB 10; Length 4990;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCTTTGAAAGACTCCAGAACTTCAAGAGCCACGAGTATGAGCTGCAAGCTGCG 60
| | | | |
Db 3334 GACCTTTGAAAGACTCCAGAACTTCAAGAGCCACGAGTATGAGCTGCAAGCTGCG 3393
| | | | |
QY 61 CCAAGCTGAGGTGATCAAGGATCTTGGCAGCCCGTGGCCGATCTCTCATTTGACTCTCT 120
| | | | |
Db 3394 CCAAGCTGAGGTGATCAAGGATCTTGGCAGCCCGTGGCCGATCTCTCATTTGACTCTCT 3453
| | | | |
QY 121 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCTCGAAAGAGAA 180
| | | | |
Db 3454 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCTCGAAAGAGAA 3513
| | | | |
QY 181 CGTAGGCACTGCAATGACTTGTCTGCGCAGCTTAACAATTGGGCATTTCACTCTCAAC 240
| | | | |
Db 3514 CGTAGGCACTGCAATGACTTGTCTGCGCAGCTTAACAATTGGGCATTTCACTCTCAAC 3573
| | | | |
QY 241 GTATTAATCTGAGCACTCTGGAAGACTGAAACCAAGATGAAAGCTTCTGCAAGTGGCCGT 300
| | | | |
Db 3574 GTATTAATCTGAGCACTCTGGAAGACTGAAACCAAGATGAAAGCTTCTGCAAGTGGCCGT 3633
| | | | |
QY 301 CGAGAGCCGAGTCAAGGCACTGCAATGAAAGCCCAAGGGAATTTGGTCCAGCATCTCAGCA 360
| | | | |
Db 3634 CGAGAGCCGAGTCAAGGCACTGCAATGAAAGCCCAAGGGAATTTGGTCCAGCATCTCAGCA 3693
| | | | |
QY 361 CTTTCTTTTCCAGTCTGTCTGCAAGGCTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTCC 420
| | | | |
Db 3694 CTTTCTTTTCCAGTCTGTCTGCAAGGCTCCCTGGAGAGAGCCATCTCGCCAAACAAAGTCC 3753
| | | | |
QY 421 CTACTATATCAACAGAGATCTCAACAACTTGTCTGGAGCATCCCAAAATGACAGAGCT 480
| | | | |

Db 3754 CTACTATATCAACAGAGATCTCAACAACTTGTCTGGAGCATCCCAAAATGACAGAGCT 3813
| | | | |
QY 481 CTACAGCTTTAGCTGACCTGAATATGTCAGATTTCTCAGCTTATGGAATGCGCATGAA 540
| | | | |
Db 3814 CTACAGCTTTAGCTGACCTGAATATGTCAGATTTCTCAGCTTATGGAATGCGCATGAA 3873
| | | | |
QY 541 ACTCGAAGACTGAGAGAGGCCCTTTGCTTGATCTCTTGAGCCCTGTCAGCTGATGTA 600
| | | | |
Db 3874 ACTCGAAGACTGAGAGAGGCCCTTTGCTTGATCTCTTGAGCCCTGTCAGCTGATGTA 3933
| | | | |
QY 601 TGCCTTGACCAAGCAACCTCAAGCAAAATGACACAGCCCATGATATCTGCAATAT 660
| | | | |
Db 3934 TGCCTTGACCAAGCAACCTCAAGCAAAATGACACAGCCCATGATATCTGCAAGATAT 3993
| | | | |
QY 661 TAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGAGCAACAATTTGTCAAGCT 720
| | | | |
Db 3994 TAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGAGCAACAATTTGTCAAGCT 4053
| | | | |
QY 721 CCTCTCTGCGTGAATATGTCAGAACTGCTGCTGAATGTTTATGATACGGAGCAAC 780
| | | | |
Db 4054 CCTCTCTGCGTGAATATGTCAGAACTGCTGCTGAATGTTTATGATACGGAGCAAC 4113
| | | | |
QY 781 AGGAGGATCCGTCTCTGCTTTTAAACTGGCATATTTCCCTGTGTAAAGCAATTT 840
| | | | |
Db 4114 AGGAGGATCCGTCTCTGCTTTTAAACTGGCATATTTCCCTGTGTAAAGCAATTT 4173
| | | | |
QY 841 GGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTTGTACCA 900
| | | | |
Db 4174 GGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTTGTACCA 4233
| | | | |
QY 901 GCGCAGGCTGGGCTCTCTTCTGATGATTTATCAAAATTTCAAGACAGTTGGTGAAGT 960
| | | | |
Db 4234 GCGCAGGCTGGGCTCTCTTCTGATGATTTATCAAAATTTCAAGACAGTTGGTGAAGT 4293
| | | | |
QY 961 TGCATCTTTGGGGGAGTAACTTGAAGCCAGTGTCCGAGCTGCTTCCAAATTTGTCTAA 1020
| | | | |
Db 4294 TGCATCTTTGGGGGAGTAACTTGAAGCCAGTGTCCGAGCTGCTTCCAAATTTGTCTAA 4353
| | | | |
QY 1021 TAATPAAGCCAGAGTCAAGAGGCGCTCTCTTCTGATCTGATGAGACTGGAACCCCAAGTC 1080
| | | | |
Db 4354 TAATPAAGCCAGAGTCAAGAGGCGCTCTCTTCTGATCTGATGAGACTGGAACCCCAAGTC 4413
| | | | |
QY 1081 CATGTGTGGCTGCGCTCTGCAAGAGTGTGCTGCAAGAACTGCCAAGCATCAAGGC 1140
| | | | |
Db 4414 CATGTGTGGCTGCGCTCTGCAAGAGTGTGCTGCAAGAACTGCCAAGCATCAAGGC 4473
| | | | |
QY 1141 CAAATGTAACTCTGCAAAAGTGTCCAATCATTTGATTCAGATTAAGAGTCTTAAAGCA 1200
| | | | |
Db 4474 CAAATGTAACTCTGCAAAAGTGTCCAATCATTTGATTCAGATTAAGAGTCTTAAAGCA 4533
| | | | |
QY 1201 CTTTAATTATGACATCTGCCAAAGCTCTTTTCTGTGTCGAGTTGCAAAAGGCCATTA 1260
| | | | |
Db 4534 CTTTAATTATGACATCTGCCAAAGCTCTTTTCTGTGTCGAGTTGCAAAAGGCCATTA 4593
| | | | |
QY 1261 AATGACTATCCAGTGTGAAATATTTGCACTCCGACTACATCAGAGAGATGTTGAGA 1320
| | | | |
Db 4594 AATGACTATCCAGTGTGAAATATTTGCACTCCGACTACATCAGAGAGATGTTGAGA 4653
| | | | |
QY 1321 CTTTGCCAGGTACTAAAAAACAATTTGAAACCAAAAGTATTTTGGGAAGATCCCCG 1380
| | | | |
Db 4654 CTTTGCCAGGTACTAAAAAACAATTTGAAACCAAAAGTATTTTGGGAAGATCCCCG 4713
| | | | |
QY 1381 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGGACAAACATGAAACCTCCGACAC 1440
| | | | |
Db 4714 AATGGGCTACCTGCCAGTGCAGACTGTCTTGAAGGGGGGACAAACATGAAACCTCCGACAC 4773
| | | | |
QY 1441 AATGTAG 1447
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Db 4774 AATGTAG 4780
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RESULT 14

US-09-845-416-36

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; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-36
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Query Match      100.0%; Score 1447; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 3464 CCAAGCTGAGTGATCAAGAGGATCTCTGGAGCCCTGGGCGCATCTCTATGATCTCTT 3523
Oy 121 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTGAGAGAAATTTGGGCGCTCAAGAGAA 180
Db 3524 CCAAGATCACCTCGAAGAAAGTCAAGGCACTTGAGAGAAATTTGGGCGCTCAAGAGAA 3583
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Oy 301 CGAGGACCGAGTCAAGGCTGATGGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCA 360
Db 3704 CGAGGACCGAGTCAAGGCTGATGGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCA 3763
Oy 361 CTTTCTTTCACAGTCTGTCAGAGGTCCTGCGAGAGAGCCATCTGCGCAAAACAAGTGGC 420
Db 3764 CTTTCTTTCACAGTCTGTCAGAGGTCCTGCGAGAGAGCCATCTGCGCAAAACAAGTGGC 3823
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Oy 541 ACTCGGAAGACTGCAAGAGCCCTTTGCTGGATCTCTTGAAGCTGTCAGCTGATGTA 600
Db 3944 ACTCGGAAGACTGCAAGAGCCCTTTGCTGGATCTCTTGAAGCTGTCAGCTGATGTA 4003
Oy 601 TGCCTTGAGCAGCAACAACCTCAAGCAAAATAGCAAGCCCATGATATCTTGGCAATTA 660
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Db 4844 AATGTAG 4850
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US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-27
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Query Match      100.0%; Score 1447; DB 10; Length 5149;
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1381 AATGGCTACCTGCGCATGTCAGACTGTCTTATGAGGGGCAACAATGAAAACTCCCGAAC 1440
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QY 1441 AATGTAG 1447
DB 4933 AATGTAG 4939
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Job time : 870.096 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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Title: US-09-845-416-14_COPY_2000_3446
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Scoring table: IDENTITY_NUC
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Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405566

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	1437.6	99.4	5952	4 US-09-687-875A-1	Sequence 1, Appl
2	1436	99.2	5627	4 US-09-949-016-2831	Sequence 2831, Ap
3	1436	99.2	5627	4 US-09-949-016-2832	Sequence 2832, Ap
4	1436	99.2	7109	4 US-09-949-016-2812	Sequence 2812, Ap
5	1436	99.2	7109	4 US-09-949-016-2813	Sequence 2813, Ap
6	1436	99.2	7109	4 US-09-949-016-2814	Sequence 2814, Ap
7	1436	99.2	7109	4 US-09-949-016-2815	Sequence 2815, Ap
8	1436	99.2	7109	4 US-09-949-016-2816	Sequence 2816, Ap
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25	1426.6	98.6	13977	3 US-09-484-970B-50	Sequence 60, Appl
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28	1001.6	69.2	4556	4 US-09-949-016-2826	Sequence 2826, Ap
29	1001.6	69.2	4556	4 US-09-949-016-2827	Sequence 2827, Ap
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34	747	51.6	6045	4 US-09-091-501B-7	Sequence 9, Appl
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36	679.2	46.9	3499	4 US-09-949-016-276	Sequence 276, App
37	677.6	46.8	3498	4 US-09-949-016-1359	Sequence 1359, Ap
38	668.4	46.2	3915	4 US-09-976-594-93	Sequence 93, Appl
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40	203	14.0	151295	4 US-09-949-016-14568	Sequence 14569, A
41	203	14.0	151295	4 US-09-949-016-14569	Sequence 14570, A
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45	203	14.0	393753	4 US-09-949-016-14573	Sequence 14573, A

ALIGNMENTS

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; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLICED PEI
; FILE REFERENCE: 00792
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1
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Best Local Similarity 99.7%; Pred. No. 0;
Matches 1440; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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RESULT 2
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; Sequence 2831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2831
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2831

```

Query Match	99.2%	Score 1436;	DB 4;	Length 5627;
Best Local Similarity	99.7%;	Pred. No. 0;		
Matches 1439; Conservative	0;	Mismatches	5.	Indels 0

QY	667	GAACCTTTAAAGACTCCAGGAATCTTCAAGAGGCGCAGATGAGCTGGA	CTTCAAGCTGCG	60
Db	667	GAACCTTTAAAGACTCCGGGAACCTTCAAGAGGCGCAGATGAGCTGGA	CTTCAAGCTGCG	7268
QY	61	CCAACTGAGGTGATCAAGGGAATCTTGAGAGCCGCTGGGCGCATCTCT	CAATTGACTCTT	120
Db	727	CCAACTGAGGTGATCAAGGGAATCTTGAGAGCCGCTGGGCGCATCTCT	CAATTGACTCTT	786
QY	121	CCAAGATCACTCGAGAAATGTCAAAGGCACTTGAGAGGAAATTTGCGCT	CTTGAAAGGA	180
Db	787	CCAAGATCACTCGAGAAATGTCAAAGGCACTTGAGAGGAAATTTGCGCT	CTTGAAAGGA	846
QY	181	CGTAGGCAAGTCATTAATGACCTTGGCTGCGCAGCTTACCATTTGGGCA	ATTGAGCTTCAC	240
Db	847	CGTAGGCAAGTCATTAATGACCTTGGCTGCGCAGCTTACCATTTGGGCA	ATTGAGCTTCAC	906
QY	241	GTATTAACCTTCAGCACTCTGAAAGCCTGAACCAACGATGGAAGCTTG	AGAGGTGGGCGCT	300
Db	907	GTATTAACCTTCAGCACTCTGAAAGCCTGAACCAACGATGGAAGCTTG	AGAGGTGGGCGCT	96
QY	301	CGAGAACCGAGTCAGGCAAGCTGCATGAAGCCCAAGAGGACTTTGGT	CGACATCTTCAGA	360
Db	967	CGAGAACCGAGTCAGGCAAGCTGCATGAAGCCCAAGAGGACTTTGGT	CGACATCTTCAGA	1028
QY	361	CTTTCTTTTCCAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCG	CAAAAGAGTGC	420
Db	1027	CTTTCTTTTCCAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCG	CAAAAGAGTGC	1088
QY	421	CTATCTATATCAACCAAGAGCTCAAAACAATGCTGGGACATCCCAAAA	TGACAGACT	480
Db	1087	CTATCTATATCAACCAAGAGCTCAAAACAATGCTGGGACATCCCAAAA	TGACAGACT	1146
QY	481	CTACCAAGTTTAACTGACCTGAATATATGTCAGATTCTCAGCTTATAG	CACTGCCATGAA	540

Db 1147 CTACAGTCTTAGAGTGAAGTGAATATGTGAGATTTCTAGCTTATAGGAGTCCATGAA 1206
Qy ACTCGAAGAGTGCAGAGAGGCTTTTGGTGGATCTTTGAGCCCTGTAGCTGATGGA 600
Db 1207 ACTCGAAGAGTGCAGAGAGGCTTTTGGTGGATCTTTGAGCCCTGTAGCTGATGGA 1266
Qy TGCCTTGAACAGAGCAAGTCAAGCAAAATGACAGGCGCATGATCTCTGACATTTAT 660
Db 1267 TGCCTTGAACAGAGCAAGTCAAGCAAAATGACAGGCGCATGATCTCTGACATTTAT 1326
Qy TAAATGTTTGAACCACTATTATATGACCGCTGAGAGAGCAACAAATTTGGTCAAGT 720
Db 1327 TAAATGTTTGAACCACTATTATATGACCGCTGAGAGAGCAACAAATTTGGTCAAGT 1386
Qy CCCTCTGCGGTGATATGTGTCTGAACCTGCTGATGATTTTATGATACCGAGAGCAAC 1446
Db 1387 CCCTCTGCGGTGATATGTGTCTGAACCTGCTGATGATTTTATGATACCGAGAGCAAC 1446
Qy AGGAGAGATCGGTGCTGCTTTTAAACCTGAGATCAATTTCCCTGTGAAAGCAATTT 840
Db 1447 AGGAGAGATCGGTGCTGCTTTTAAACCTGAGATCAATTTCCCTGTGAAAGCAATTT 1506
Qy GGAAGACAGTACAGATACCTTTTCAAGCAGTGGCAAGTTTCAAGAGATTTTGTGACCA 900
Db 1507 GGAAGACAGTACAGATACCTTTTCAAGCAGTGGCAAGTTTCAAGAGATTTTGTGACCA 1566
Qy GCGCAGGCTGGGCTCTCTTCTGATGATTTTATCCAAATTTCCAAACAGTTGGGAGAT 960
Db 1567 GCGCAGGCTGGGCTCTCTTCTGATGATTTTATCCAAATTTCCAAACAGTTGGGAGAT 1626
Qy TGCATCTCTTGGGGGAGTAAATTTGAGCAGTGGCAGTGGCTGCTTCAATTTGCTTAA 1020
Db 1627 TGCATCTCTTGGGGGAGTAAATTTGAGCAGTGGCAGTGGCTGCTTCAATTTGCTTAA 1686
Qy TAAATGAGCAGAGATGAGAGGCGCTCTTCTTGAAGTGGATGAGAGCTGGAAAGCCAGTC 1080
Db 1687 TAAATGAGCAGAGATGAGAGGCGCTCTTCTTGAAGTGGATGAGAGCTGGAAAGCCAGTC 1746
Qy CATGCTGTGGCTGCGCTCTGCAAGAGTGGCTGCAAGAGCTGGCAAGAGCTGAGAGC 1806
Db 1747 CATGCTGTGGCTGCGCTCTGCAAGAGTGGCTGCAAGAGCTGGCAAGAGCTGAGAGC 1806
Qy CAAATGTAACATCTGCAAGAGTGGCTGCAAGAGTGGATGAGAGCTGGAAAGCTGAAAGCA 1200
Db 1807 CAAATGTAACATCTGCAAGAGTGGCTGCAAGAGTGGATGAGAGCTGGAAAGCTGAAAGCA 1866
Qy CTTTAAATATGACATCTGCAAGAGTGGCTTTTCTGCTGAGTGGCAAAAGGCGCATTA 1260
Db 1867 CTTTAAATATGACATCTGCAAGAGTGGCTTTTCTGCTGAGTGGCAAAAGGCGCATTA 1926
Qy AATGCACTATCCCATGAGTGAATTTGCACTCCGATCATGAGAGAGATGTTGAGAG 1986
Db 1927 AATGCACTATCCCATGAGTGAATTTGCACTCCGATCATGAGAGAGATGTTGAGAG 1986
Qy CTTTCCCAAGATGATTAATAAATAAATTTGCAAGCAAAAGGATTTTGGCAAGATCCCGG 1380
Db 1321 CTTTCCCAAGATGATTAATAAATAAATTTGCAAGCAAAAGGATTTTGGCAAGATCCCGG 2046
Qy CTTTCCCAAGATGATTAATAAATAAATTTGCAAGCAAAAGGATTTTGGCAAGATCCCGG 2046
Db 1987 CTTTCCCAAGATGATTAATAAATAAATTTGCAAGCAAAAGGATTTTGGCAAGATCCCGG 2046
Qy AATGAGGCTGACCTGCAAGTGGCAAGTGTCTTAAAGGGGAGCAACATGAGAAAGCTCCGTTAC 1440
Db 2047 AATGAGGCTGACCTGCAAGTGGCAAGTGTCTTAAAGGGGAGCAACATGAGAAAGCTCCGTTAC 2106
Qy 1441 AATG 1444
Db 2107 TCTG 2110

RESULT 3
US-09-949-016-2832
; Sequence 2832, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949.016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

Query Match 99.2% Score 1436; DB 4; Length 5627;
Beet Local Similarity 99.7%; Pred. No. 0; Mismatches 5; Indels 0; Gaps 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACCTTGAAGAGTCAAGAGCTTCAAGAGGCGCAGATGAGCTGACCTCAAGCTGCG 60
Db 667 GACCTTGAAGAGTCAAGAGGCGCAGATGAGCTGACCTCAAGCTGCG 726
Qy 61 CCAAGCTGAGTGAAGAGGATCTGAGAGGCGCAGATGAGCTGACCTCAAGCTGCG 120
Db 727 CCAAGCTGAGTGAAGAGGATCTGAGAGGCGCAGATGAGCTGACCTCAAGCTGCG 786
Qy 121 CCAAGTACCTCGAAGAGTCAAGAGCTTCAAGAGGCGCAGATGAGCTGACCTCAAGAGAA 180
Db 787 CCAAGTACCTCGAAGAGTCAAGAGCTTCAAGAGGCGCAGATGAGCTGACCTCAAGAGAA 846
Qy 181 CGTGAAGCAGTCAATGACCTTGTGCGCAGCTTCAAGAGGCGCAGATGAGCTGACCTCAAG 240
Db 847 CGTGAAGCAGTCAATGACCTTGTGCGCAGCTTCAAGAGGCGCAGATGAGCTGACCTCAAG 906
Qy 241 GTATTAACCTCAGCACTCTGGAAGAGCTGAAACAGAGTGAAGAGCTTGTGAGAGTGGCCGT 300
Db 907 GTATTAACCTCAGCACTCTGGAAGAGCTGAAACAGAGTGAAGAGCTTGTGAGAGTGGCCGT 966
Qy 301 CGAGAGCGAGTCAAGAGGCTGCAAGAGGCGCAGAGGCGCAGATGAGCTGACCTCAAGAG 360
Db 967 CGAGAGCGAGTCAAGAGGCTGCAAGAGGCGCAGAGGCGCAGATGAGCTGACCTCAAGAG 1026
Qy 361 CTTTCTTCAAGTGTGTCAGAGGCTCCCTGGAGAGAGCCATCTGCGCAACAAAGTGGC 420
Db 1027 CTTTCTTCAAGTGTGTCAGAGGCTCCCTGGAGAGAGCCATCTGCGCAACAAAGTGGC 1086
Qy 421 CTACTATATCAACAGAGAGTCAAAACAACTTGTGAGAGCCATCTGCGCAACAAAGTGGC 480
Db 1087 CTACTATATCAACAGAGAGTCAAAACAACTTGTGAGAGCCATCTGCGCAACAAAGTGGC 1146
Qy 481 CTACAGCTTAAAGTGAAGTGAATGATGAGATTTCAAGTGAAGTGAAGTGAAGTGAAGTGAAG 540
Db 1147 CTACAGCTTAAAGTGAAGTGAATGATGAGATTTCAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1206
Qy 541 ACTCGAAGAGTGCAGAGAGGCTTTGCTGAGATCTTGAAGCTGAGCTGAGTGAAGTGAAG 600
Db 1207 ACTCGAAGAGTGCAGAGAGGCTTTGCTGAGATCTTGAAGCTGAGCTGAGTGAAGTGAAG 1266
Qy 601 TGCCTTGAACAGAGCAACCTGAGCAAAATGACAGGCGCATGATTTCTGCAAGATTTAT 660
Db 1267 TGCCTTGAACAGAGCAACCTGAGCAAAATGACAGGCGCATGATTTCTGCAAGATTTAT 1326
Qy 661 TAAATGTTTGAACCACTATTATATGACCGCTGAGAGAGCAACAAATTTGGTCAAGCT 720
Db 1327 TAAATGTTTGAACCACTATTATATGACCGCTGAGAGAGCAACAAATTTGGTCAAGCT 1386
Qy 721 CCCTCTGCGGTGATATGTGTCTGAACCTGCTGATGATTTTATGATACGAGAGCAAG 780

Db 1387 CCTCTCTGCGTGTGATATGCTGTAACGTGGCTCTGATGTTATGATACGGGAGCAAC 1446
QY 781 AGGAGGATCCGTGCTGCTTTTAAACCTGGATATATTTCCCTGTGTAAAGCACTTT 840
Db 1447 AGGAGGATCCGTGCTGCTTTTAAACCTGGATATATTTCCCTGTGTAAAGCACTTT 1506
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTGACCA 900
Db 1507 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTGACCA 1566
QY 901 GCGAGGCTGGGCTCCTTTGATGATTTCTATCCAAATTCGAAGCAGTTGGGTAAAGT 960
Db 1567 GCGAGGCTGGGCTCCTTTGATGATTTCTATCCAAATTCGAAGCAGTTGGGTAAAGT 1626
QY 961 TGCATCTTTGGGGGAGTAAATGAGCCAAATTCGAAGCAGTTGGGTAAAGT 1626
Db 1627 TGCATCTTTGGGGGAGTAAATGAGCCAAATTCGAAGCAGTTGGGTAAAGT 1686
QY 1021 TAATTAAGCCGAATGGAAGGCGCTCTTCTTGAAGCTGGATGGAAGTGGAAACCCAGTC 1080
Db 1687 TAATTAAGCCGAATGGAAGGCGCTCTTCTTGAAGCTGGATGGAAGTGGAAACCCAGTC 1746
QY 1081 CATGCTGTGCTGCTGCTGCTGCAAGAGTGTGCTGCAAGAACTGCCAAGCATAGGC 1140
Db 1747 CATGCTGTGCTGCTGCTGCTGCAAGAGTGTGCTGCAAGAACTGCCAAGCATAGGC 1806
QY 1141 CAAATGTAATCTGCAAAAGAGTGTCAATCAATTTGAGTTCAGGTAACAGAGTCTAAAGCA 1200
Db 1807 CAAATGTAATCTGCAAAAGAGTGTCAATCAATTTGAGTTCAGGTAACAGAGTCTAAAGCA 1866
QY 1201 CTTTAAATTTGACATCTGCAAAAGTCTTTTCTTGTGTGATGCAATTTGCAAAAGCCATTA 1260
Db 1867 CTTTAAATTTGACATCTGCAAAAGTCTTTTCTTGTGTGATGCAATTTGCAAAAGCCATTA 1926
QY 1261 AATGCACTATCCATGCTGGAATATTTGCACTCCGATCATCAGAGAAAGATTTGAGA 1320
Db 1927 AATGCACTATCCATGCTGGAATATTTGCACTCCGATCATCAGAGAAAGATTTGAGA 1986
QY 1321 CTTTGGCAAGTATCTTAAATAAATAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCG 1380
Db 1987 CTTTGGCAAGTATCTTAAATAAATAATTTGCAACCAAAAGTATTTTGGCAAGCATCCCG 2046
QY 1381 AATGGGCTACTGCTGCAAGTGTCTTGAAGGGGGAACAATGGAATCTCCGAGAAC 1440
Db 2047 AATGGGCTACTGCTGCAAGTGTCTTGAAGGGGGAACAATGGAATCTCCGAGAAC 2106
QY 1441 AATG 1444
Db 2107 TCTG 2110

RESULT 4
US-09-949-016-2812
Sequence 2812, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2812
LENGTH: 7109
TYPE: DNA

ORGANISM: Human
US-09-949-016-2812
Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GACCTTTGAAAGATCTCCAGAACTTTCAAGAGCCACGATAGCTGACCTCAAGCTGCG 60
Db 2181 GACCTTTGAAAGATCTCCAGAACTTTCAAGAGCCACGATAGCTGACCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGGATCTCGGACGCCCTGGGCGCATCTCTCATTTGACTCT 120
Db 2241 CCAAGCTGAGGTGATCAAGGGATCTCGGACGCCCTGGGCGCATCTCTCATTTGACTCT 2300
QY 121 CCAAGTACCTCGAAGAAAGTCAAGGACCTTCAAGAGAAATTCGCTCTGAAAGAGAA 180
Db 2301 CCAAGTACCTCGAAGAAAGTCAAGGACCTTCAAGAGAAATTCGCTCTGAAAGAGAA 2360
QY 181 GGTGAGCCAGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTTCACC 240
Db 2361 GGTGAGCCAGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTTCACC 2420
QY 241 GTATTAACCTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGCGCT 300
Db 2421 GTATTAACCTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGCGCT 2480
QY 301 CGAGAGCCAGTCAAGGAGCTGCAATGAAGCCCAAGGGAATTTGTTCAGCATCTCAGCA 360
Db 2481 CGAGAGCCAGTCAAGGAGCTGCAATGAAGCCCAAGGGAATTTGTTCAGCATCTCAGCA 2540
QY 361 CTTTCTTTTCAAGCTGTCTGAGGGTCCCTGGGAGAGCCATTTGGCCAAAGTGGC 420
Db 2541 CTTTCTTTTCAAGCTGTCTGAGGGTCCCTGGGAGAGCCATTTGGCCAAAGTGGC 2600
QY 421 CTAATATATCAACCAAGCACTCAAAACAATTCCTGGGACATCCCAAAATGACAGAGCT 480
Db 2601 CTAATATATCAACCAAGCACTCAAAACAATTCCTGGGACATCCCAAAATGACAGAGCT 2660
QY 481 CTACCAAGCTTTTGAAGTCACTGTAATATGTCAGATTTCTGACTTTATGAGTCCATGAA 540
Db 2661 CTACCAAGCTTTTGAAGTCACTGTAATATGTCAGATTTCTGACTTTATGAGTCCATGAA 2720
QY 541 ACTCCGAAGCTGCAAGAGCCCTTGTGTGATCTCTTGAAGCTGTGAGTGCATGTA 600
Db 2721 ACTCCGAAGCTGCAAGAGCCCTTGTGTGATCTCTTGAAGCTGTGAGTGCATGTA 2780
QY 601 TGCCTTGAACCAAGCACTCAAGCAAAATGACAGCCCATGATGATCTGCAATTA 660
Db 2781 TGCCTTGAACCAAGCACTCAAGCAAAATGACAGCCCATGATGATCTGCAATTA 2840
QY 661 TAATGTTTGAACCACTTTATGACCGGCTGAGGAGCAAGGCAACAATTTGTCACGT 720
Db 2841 TAATGTTTGAACCACTTTATGACCGGCTGAGGAGCAAGGCAACAATTTGTCACGT 2900
QY 721 CCTCTCTGCGTGAATATGTCGAACTGCTGCTGATGTTTATGATACGGAGCAAC 780
Db 2901 CCTCTCTGCGTGAATATGTCGAACTGCTGCTGATGTTTATGATACGGAGCAAC 2960
QY 781 AGGAGGATCCGTGCTGCTTTTAAACCTGGATATATTTCCCTGTGTAAAGCACTTT 840
Db 2961 AGGAGGATCCGTGCTGCTTTTAAACCTGGATATATTTCCCTGTGTAAAGCACTTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTGACCA 900
Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTGACCA 3080
QY 901 GCGAGGCTGGGCTCCTTTGATGATTTCTATCCAAATTCGAAGCAGTTGGGTAAAGT 960
Db 3081 GCGAGGCTGGGCTCCTTTGATGATTTCTATCCAAATTCGAAGCAGTTGGGTAAAGT 3140
QY 961 TGCATCTTTGGGGGAGTAAATGAGCCAAATTCGAAGCAGTTGGGTAAAGT 1020

Db 3141 TGCATCTTTGGGGGAGTAATGAGCAAGTGTCCGAGCTGCTTCAATTGCTAA 3200
Qy 1021 TAATTAAGCCAGATCGAAGGGGCTTTCTTCTAGATCGATGAGACTGGAAACCCCAATC 1080
Db 3301 TAAATAGCCAGATCGAAGGGGCTTTCTTCTAGATCGATGAGACTGGAAACCCCAATC 3260
Qy 1081 CATGGTGTGGCCCGCTCTGCAAGAGTGTGCTGCAAGAACTGCGCAAGCATCAGGC 1140
Db 3261 CATGGTGTGGCCCGCTCTGCAAGAGTGTGCTGCAAGAACTGCGCAAGCATCAGGC 3320
Qy 1141 CAAATGTAACTGTGCAAGAGTGTGCAATGATGATTCAGATTCAGAGTCTAAAGCA 1200
Db 3321 CAAATGTAACTGTGCAAGAGTGTGCAATGATGATTCAGAGTCTAAAGCA 3380
Qy 1201 CTTTAATATGACATCTGCGCAAGCTGCTTTTCTGCTGAGTTCGAAAGGCAATTA 1260
Db 3381 CTTTAATATGACATCTGCGCAAGCTGCTTTTCTGCTGAGTTCGAAAGGCAATTA 3440
Qy 1261 AATGCACTATCCCATGCTGATATTTGCACTCCGACTACATCAGAGAAAGTTCGAGA 1320
Db 3441 AATGCACTATCCCATGCTGATATTTGCACTCCGACTACATCAGAGAAAGTTCGAGA 3500
Qy 1321 CTTTGCCAAAGGTACTTAAATAAACTTTCGAACTTTCGAAAGCATCCCG 1380
Db 3501 CTTTGCCAAAGGTACTTAAATAAACTTTCGAACTTTCGAAAGCATCCCG 3560
Qy 1381 AATGGGCTAAGCTGCGCAAGCTGTCTTGAAGGGGCAACATGAAATCTCCGCAAC 1440
Db 3561 AATGGGCTAAGCTGCGCAAGCTGTCTTGAAGGGGCAACATGAAATCTCCGCTAC 3620
Qy 1441 AATG 1444
Db 3621 TCTG 3624

RESULT 5

US-09-949-016-2813
Sequence 2813, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2813
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2813

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;

Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACCTTGAAGAAGCTCGAAGAACTTCAAGAGGCGCAGATGAGTGAAGCTTCAAGCTGCG 60
Db 2181 GACCTTGAAGAAGCTCGAAGAACTTCAAGAGGCGCAGATGAGTGAAGCTTCAAGCTGCG 2240
Qy 61 CCAAGCTGAGTGAAGAGGATCTGCGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 120
Db 2241 CCAAGCTGAGTGAAGAGGATCTGCGCAGCCCGTGGCGATCTCTCATTTGACTCTCT 2300
Qy 121 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCCTGTAAAGAGA 180

Db 2301 CCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCCTGTAAAGAGA 2360
Qy 181 CGTGAAGCAGTCAATGACTTGTCTCCGCAAGCTTACACTTTGGGCAATTCAGCTCTGACC 240
Db 2361 CGTGAAGCAGTCAATGACTTGTCTCCGCAAGCTTACACTTTGGGCAATTCAGCTCTGACC 2420
Qy 241 GTATTAACCTCAGCACTGTGAAGACTGAACACCAAGATGAAAGCTTCTGCAAGTGGCCGT 300
Db 2421 GTATTAACCTCAGCACTGTGAAGACTGAACACCAAGATGAAAGCTTCTGCAAGTGGCCGT 2480
Qy 301 CGAGACCGAGTCAAGCAGCTGATGAAGCCACAGGAGCTTTGGTCCAGATCTCAGCA 360
Db 2481 CGAGACCGAGTCAAGCAGCTGATGAAGCCACAGGAGCTTTGGTCCAGATCTCAGCA 2540
Qy 361 CTTTCTTTCCAGCTGTCTGCAAGGCTCCCTGGGAGAGAGCCATCTCCGCAAAAGTGGC 420
Db 2541 CTTTCTTTCCAGCTGTCTGCAAGGCTCCCTGGGAGAGAGCCATCTCCGCAAAAGTGGC 2600
Qy 421 CTACTATATCAACCAAGCACTCAAACTTGTCTGGGACCATCCCAAAATGACAGAGCT 480
Db 2601 CTACTATATCAACCAAGCACTCAAACTTGTCTGGGACCATCCCAAAATGACAGAGCT 2660
Qy 481 CTACCAAGCTTTAGCTGAAGTAAATGATGAGATTTCTACCTTATAGACTGCGCATGA 540
Db 2661 CTACCAAGCTTTAGCTGAAGTAAATGATGAGATTTCTACCTTATAGACTGCGCATGA 2720
Qy 541 ACTCGGAAGATCGCAAGAGGCTTTGCTTGGATCTCTTGAAGCTCTGACCTGCAATGGA 600
Db 2721 ACTCGGAAGATCGCAAGAGGCTTTGCTTGGATCTCTTGAAGCTCTGACCTGCAATGGA 2780
Qy 601 TGCCTTGAGCAGCACTCAAGCAAAATGACCAAGCCATGATATCTGCAAGATTA 660
Db 2781 TGCCTTGAGCAGCACTCAAGCAAAATGACCAAGCCATGATATCTGCAAGATTA 2840
Qy 661 TAATTTGTTGACCACTATTTATGACCGCTGAGAGCAAGACCAAAATTTGGTCAAGCT 720
Db 2841 TAATTTGTTGACCACTATTTATGACCGCTGAGAGCAAGACCAAAATTTGGTCAAGCT 2900
Qy 721 CCTCTCTGCGTGAATATGCTCTGAACTGCTGTAATGTTATGATACGGGCAAGC 780
Db 2901 CCTCTCTGCGTGAATATGCTCTGAACTGCTGTAATGTTATGATACGGGCAAGC 2960
Qy 781 AGGAGAGATCCGTGCTCTTTTAAACTGCAATCTTCCCTGTGTAAGCACTTT 840
Db 2961 AGGAGAGATCCGTGCTCTTTTAAACTGCAATCTTCCCTGTGTAAGCACTTT 3020
Qy 841 GGAAGACAAGTACAGATACCTTTTCAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 900
Db 3021 GGAAGACAAGTACAGATACCTTTTCAGCAAGTGGCAAGTTCAACAGATTTTGTGACCA 3080
Qy 901 GCGCAGGCTGGGCTCTCTTCTGCAATCTTCAAAATTCAGACAGTTGGGTGAAGT 960
Db 3081 GCGCAGGCTGGGCTCTCTTCTGCAATCTTCAAAATTCAGACAGTTGGGTGAAGT 3140
Qy 961 TGCATCTTTGGGGGCAAGTATGAGCAAGTGTCCGAGAGCTTCCCAATTTGCTAA 1020
Db 3141 TGCATCTTTGGGGGCAAGTATGAGCAAGTGTCCGAGAGCTTCCCAATTTGCTAA 3200
Qy 1021 TAATTAAGCCAGATCGAAGGGGCTTCTTCTAGATCGATGAGACTGGAACCCCAAGTC 1080
Db 3201 TAATTAAGCCAGATCGAAGGGGCTTCTTCTTCTAGATCGATGAGACTGGAACCCCAAGTC 3260
Qy 1081 CATGGTGTGGCCCGCTCTGCAAGAGTGTGCTGCAAGAACTGCGCAAGCATCAGGC 1140
Db 3261 CATGGTGTGGCCCGCTCTGCAAGAGTGTGCTGCAAGAACTGCGCAAGCATCAGGC 3320
Qy 1141 CAAATGTAACTGTGCAAGAGTGTGCAATGATGATTCAGATTCAGAGTCTAAAGCA 1200
Db 3321 CAAATGTAACTGTGCAAGAGTGTGCAATGATGATTCAGAGTCTAAAGCA 3380
Qy 1201 CTTTAATATGACATCTGCGCAAGCTGCTTTTCTGCTGAGTTCGAAAGGCAATTA 1260

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Db 3381 CTTTAAATATGACATCTGCCAAAGCTCTTTTCTGTGCTGAGTTGCAAAAGCCATTA 3440
Qy 1261 AATGACATATCCCATGAGTGAATATTCACCTCCGACTATATCAGAGAAAGATTGCGA 1320
Db 3441 AATGACATATCCCATGAGTGAATATTCACCTCCGACTATATCAGAGAAAGATTGCGA 3500
Qy 1321 CTTTGGCAAGGATCTAATAAAACAAATTTGGAACAAAGATATTTTGGCAAGCATCCCG 1380
Db 3501 CTTTGGCAAGGATCTAATAAAACAAATTTGGAACAAAGATATTTTGGCAAGCATCCCG 3560
Qy 1381 AATGGCTATCCCTGCAAGTGCATCTGTCTTAAAGGGGCAACAATGAAATCTCCGACAC 1440
Db 3561 AATGGCTATCCCTGCAAGTGCATCTGTCTTAAAGGGGCAACAATGAAATCTCCGACAC 3620
Qy 1441 AATG 1444
Db 3621 TCTG 3624

RESULT 6
US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq For Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2814

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACCTTGAAGAAGCTCCGAGAACTTCAAGAGCCACCGATAGCTGCAAGCTCAAGCTGCG 60
Db 2181 GACCTTGAAGAAGCTCCGAGAACTTCAAGAGCCACCGATAGCTGCAAGCTGCG 2240
Qy 61 CCAAGCTGAGTGTATCAAGGAGCTCTGGCAGCCCGTGGCGCATCTCCCATTTGACTCTCT 120
Db 2241 CCAAGCTGAGTGTATCAAGGAGCTCTGGCAGCCCGTGGCGCATCTCTCATTTGACTCTCT 2300
Qy 121 CCAAGATCACTTCAGAAAAGTCAAGGCACTTCAAGAGAAATTCGCGCTCGAAGAGAA 180
Db 2301 CCAAGATCACTTCAGAAAAGTCAAGGCACTTCAAGAGAAATTCGCGCTCGAAGAGAA 2360
Qy 181 CGTAGGACAGTCAATGACTTGTCCGCAAGCTTACACATTTGGGCAATTCAGCTCTCAAC 240
Db 2361 CGTAGGACAGTCAATGACTTGTCCGCAAGCTTACACATTTGGGCAATTCAGCTCTCAAC 2420
Qy 241 GTATTAACCTCAGACTCTGGAAGACTGAACACCAAGATGAAGCTTCTGCAAGTGGCGGT 300
Db 2421 GTATTAACCTCAGACTCTGGAAGACTGAACACCAAGATGAAGCTTCTGCAAGTGGCGGT 2480
Qy 301 CGAGGACCGAGTCAAGGAGCTGCTCATGAAGCCCAAGGAGCTTTGGTCCAGCATCTCAGA 360
Db 2481 CGAGGACCGAGTCAAGGAGCTGCTCATGAAGCCCAAGGAGCTTTGGTCCAGCATCTCAGA 2540
Qy 361 CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAGATGCC 420
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Db 2541 CTTTCTTTCCACGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAGATGCC 2600
Qy 421 CTACTATATCAACACAGACTCAAAACAATTTGCTGGAGCCATCCAAATATGACAGACT 480
Db 2601 CTACTATATCAACACAGACTCAAAACAATTTGCTGGAGCCATCCAAATATGACAGACT 2660
Qy 481 CTACAGCTTTTACTGACCCGAATATATGTCAGATTTCTCAGCTTATATGACTGCGCATGA 540
Db 2661 CTACAGCTTTTACTGACCCGAATATATGTCAGATTTCTCAGCTTATATGACTGCGCATGA 2720
Qy 541 ACTCGAAGACTGAGAGAGGCTTTGCTTGATCTCTTGAGCTGTCACTGATGATGTA 600
Db 2721 ACTCGAAGACTGAGAGAGGCTTTGCTTGATCTCTTGAGCTGTCACTGATGATGTA 2780
Qy 601 TGCTTGGACACGACAACTCAAGCAAAATGACACCGCATGATATCTGCAATATAT 660
Db 2781 TGCTTGGACACGACAACTCAAGCAAAATGACACCGCATGATATCTGCAATATAT 2840
Qy 661 TAATGTTTGGACACTATTTATGACCGCTGGAGCAAGACAAATTTGGTCAAGT 720
Db 2841 TAATGTTTGGACACTATTTATGACCGCTGGAGCAAGACAAATTTGGTCAAGT 2900
Qy 721 CCTCTCTGCTGGATATGTCTGAACTGCTGCTGAATGTTTATGATACGGGACGAC 780
Db 2901 CCTCTCTGCTGGATATGTCTGAACTGCTGCTGAATGTTTATGATACGGGACGAC 2960
Qy 781 AGGAGAGATCCGTCTCTGTCTTTTAAATCGCATATTTCCCTGTGTAAAGCACTTT 840
Db 2961 AGGAGAGATCCGTCTGTCTTTTAAATCGCATATTTCCCTGTGTAAAGCACTTT 3020
Qy 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGCCA 900
Db 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGCCA 3080
Qy 901 GCGCAGGCTGAGGCTCTCTTGTGATGATTTCTATCAAAATTCAGACAGTTGGGTGAGT 960
Db 3081 GCGCAGGCTGAGGCTCTCTTGTGATGATTTCTATCAAAATTCAGACAGTTGGGTGAGT 3140
Qy 961 TGCACTCTTTGGGGGCGATTAACATTAAGCCCAAGTGTCCGAGCTGCTTCCATTTGTATA 1020
Db 3141 TGCACTCTTTGGGGGCGATTAACATTAAGCCCAAGTGTCCGAGCTGCTTCCATTTGTATA 3200
Qy 1021 TAATTAAGCAGAGATCGAAGCGGCCCTTCTTGAATGATGATGAGTGAACCCCACTC 1080
Db 3201 TAATTAAGCAGAGATCGAAGCGGCCCTTCTTGAATGATGATGAGTGAACCCCACTC 3260
Qy 1081 CATGTGTGCTGCGCTCTGCAAGAGTGTCTGTCAGAAATTCGCCAAGCATCAGGC 1140
Db 3261 CATGTGTGCTGCGCTCTGCAAGAGTGTCTGTCAGAAATTCGCCAAGCATCAGGC 3320
Qy 1141 CAATGTAAATCATGTGCAAGAGTGTCAATCATTTGATTCAGATACAGAGTGTAAAGCA 1200
Db 3321 CAATGTAAATCATGTGCAAGAGTGTCAATCATTTGATTCAGATACAGAGTGTAAAGCA 3380
Qy 1201 CTTTAATTAATGACATCTGCCAAAGCTGCTTTTCTGTGCTGAGTTGCAAAAGCCATTA 1260
Db 3381 CTTTAATTAATGACATCTGCCAAAGCTGCTTTTCTGTGCTGAGTTGCAAAAGCCATTA 3440
Qy 1261 AATGCACTATCCATGCTGGAATATTTGCACTCCGACTACATCAGAGAAAGATTTGAGA 1320
Db 3441 AATGCACTATCCATGCTGGAATATTTGCACTCCGACTACATCAGAGAAAGATTTGAGA 3500
Qy 1321 CTTTGGCAAGGATCTAATAAAACAAATTTTGAACCAAAAGATATTTTGGCAAGCATCCCG 1380
Db 3501 CTTTGGCAAGGATCTAATAAAACAAATTTTGAACCAAAAGATATTTTGGCAAGCATCCCG 3560
Qy 1381 AATGGCTATCCCTGCAAGTGCATCTGTCTTAAAGGGGCAACAATGAAATCTCCGACAC 1440
Db 3561 AATGGCTATCCCTGCAAGTGCATCTGTCTTAAAGGGGCAACAATGAAATCTCCGACAC 3620
Qy 1441 AATG 1444
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Db                3621 TCTG 3624

RESULT 7
US-09-949-016-2815
; Sequence 2815, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: fastseq for Windows Version 4.0
; SEQ ID NO 2815
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2815

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Query Match	99.2%	Score 1436	DB 4	length 7109
Best Local Similarity	Pred. 99.7%	No. 0		
Matches 1439	Conservative	0	Mismatches 5	Indels 0
			Gaps	0

Qy		GACCCCTGAAAGATCCGACGAACTTCAAGAGGCCAGATAGAGCTGACCTCAAGCTCG	60
Db	2181	GACCCCTGAAAGATCCGCGGAATCTTCAAGAGGCCAGATAGAGCTGACCTCAAGCTCG	22410
Qy	61	CCAAGCTGAGGTGATCAAGGGATCTTGCGACCCGTTGGCGATCTCTCATTTGACTCTT	120
Db	2241	CCAAGCTGAGGTGATCAAGGGATCTTGCGACCCGTTGGCGATCTCTCATTTGACTCTT	23000
Qy	121	CCAAGATCACTCGAGAAAGTCMAAGGCCTTCGAGAGAAATTGGCGCTCTGAAAAGAA	180
Db	2301	CCAAGATCACTCGAGAAAGTCMAAGGCCTTCGAGAGAAATTGGCGCTCTGAAAAGAA	23600
Qy	181	CGTAGGCAGCTCAATGACTCTTGCTCGCGACCTTAACACTTTGGGCACTTGACCTTCACC	240
Db	2361	CGTAGGCAGCTCAATGACTCTTGCTCGCGACCTTAACACTTTGGGCACTTGACCTTCACC	24220
Qy	241	GTATTAACCTCGACACTCTGGAAGACTTGAAACCAACAGATGAAGCTTTCGAGGTGGCCGT	300
Db	2421	GTATTAACCTCGACACTCTGGAAGACTTGAAACCAACAGATGAAGCTTTCGAGGTGGCCGT	24800
Qy	301	CGAGAGCCGAGTCAGGCGAGCTGCAATGAAGGCCACAGGGAATTTGGTCCAAGATCTCAGCA	360
Db	2481	CGAGAGCCGAGTCAGGCGAGCTGCAATGAAGGCCACAGGGAATTTGGTCCAAGATCTCAGCA	25400
Qy	361	CTTTCTTTCCACGCTCTGTCGAGGGGCTCCCTGGGAGAGAGCCATCTTCGCAAACAAAAGTGC	420
Db	2541	CTTTCTTTCCACGCTCTGTCGAGGGGCTCCCTGGGAGAGAGCCATCTTCGCAAACAAAAGTGC	26000
Qy	421	CTACTATATCAACCAACGAGACTCAAAACAATTTGCTGGGACCATCCCAAAATGACAGAGCT	480
Db	2601	CTACTATATCAACCAACGAGACTCAAAACAATTTGCTGGGACCATCCCAAAATGACAGAGCT	26600
Qy	481	CTACACAGCTTTAGCTGACTGAATTAAGTCAGATTCACCTTAATAGACTGCGCATGAA	540
Db	2661	CTACACAGCTTTAGCTGACTGAATTAAGTCAGATTCACCTTAATAGACTGCGCATGAA	27200
Qy	541	ACTCCGAAGATGCGAGAGAGCCCTTTGGCTTGGATCTCTTGAGCCGTGAGCTGCAATGTGA	600
Db	2721	ACTCCGAAGATGCGAGAGAGCCCTTTGGCTTGGATCTCTTGAGCCGTGAGCTGCAATGTGA	27800
Qy	601	TGCCTTGACAGCAACCTTCAGCAAAATGACCAAGCCATGATATCTTCGACGATTAAT	660

Db	2781	TGCGTTGGACAGACACAACCTCAAGCAAAATGACACGACCATGGATATCTCGACAGATTAT	2840
OY	661	TAATTTGTTTGAACCTATTTATGACCGCCCTGGAGCAAGACACAACAAATTTGGTCAAGT	720
Db	2841	TAATTTGTTTGAACCTATTTATGACCGCCCTGGAGCAAGACACAACAAATTTGGTCAAGT	2900
OY	721	CCCTCTCGGGTGAATATGTCTGAACTGGCTGCTGAATGTTTATATACGGGACGAAAC	780
Db	2901	CCCTCTCTGGGTGAATATGTCTGAACTGGCTGCTGAATGTTTATATACGGGACGAAAC	2960
OY	781	AGGAGAGATCGGTCTCTGCTTTTAAACCTGGCATATTTCCCTGTGTAAAGCACATTT	840
Db	2961	AGGAGAGATCGGTCTCTGCTTTTAAACCTGGCATATTTCCCTGTGTAAAGCACATTT	3020
OY	841	GGAAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGACCA	900
Db	3021	GGAAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGACCA	3080
OY	901	GGCGAGGCTGGGGCCCTCTTCGACATGATTTCTATCAAAATTCGAAGACAGTTGGGTGAAGT	960
Db	3081	GGCGAGGCTGGGGCCCTCTTCGACATGATTTCTATCAAAATTCGAAGACAGTTGGGTGAAGT	3140
OY	961	TGCATCCTTTGGGGGACGTAAACATTGAAGCAAGTGTCCGAGCTGCTTCCAAATTTGCTAA	1020
Db	3141	TGCATCCTTTGGGGGACGTAAACATTGAAGCAAGTGTCCGAGCTGCTTCCAAATTTGCTAA	3200
OY	1021	TAATTAAGCCAGAGATCGAAGCGGCCCTTCTTGAATCGATGAGACTTGGAAACCCCAAGTC	1080
Db	3201	TAATTAAGCCAGAGATCGAAGCGGCCCTTCTTGAATCGATGAGACTTGGAAACCCCAAGTC	3260
OY	1081	CATGGTGTGGCTGGCCGTCCTGCAACAGAGGCTGCTGCAGAAACCTGCACACATCAAGC	1140
Db	3261	CATGGTGTGGCTGGCCGTCCTGCAACAGAGGCTGCTGCAGAAACCTGCACACATCAAGC	3320
OY	1141	CAAAATGTACACTTCGCAAAAGTGTCCAAATCATTTGAATTCAGGTACAGAGTCTTAAAGCA	1200
Db	3321	CAAAATGTACACTTCGCAAAAGTGTCCAAATCATTTGAATTCAGGTACAGAGTCTTAAAGCA	3380
OY	1201	CTTTAATTTATGACATCTGCCAAAGCTGTTTTTTCTGTGTGAGATTGCAAAAGGCCATTA	1260
Db	3381	CTTTAATTTATGACATCTGCCAAAGCTGTTTTTTCTGTGTGAGATTGCAAAAGGCCATTA	3440
OY	1261	AATGACATATCCCATGATGGAATTTGCACTCCGACTACATCAGAGAGAGATGTTTCGAGA	1320
Db	3441	AATGACATATCCCATGATGGAATTTGCACTCCGACTACATCAGAGAGAGATGTTTCGAGA	3500
OY	1321	CTTTGCGCAAGGTACTTAAAAAACAATTTTCGAAACCAAAAGTATTTTTCGAAAGCATCCCG	1380
Db	3501	CTTTGCGCAAGGTACTTAAAAAACAATTTTCGAAACCAAAAGTATTTTTCGAAAGCATCCCG	3560
OY	1381	AATGGGCTACCTGCGACGTGACATGTTCTTAAAGAGGGGACACACATGTGAAACTCCGACAC	1440
Db	3561	AATGGGCTACCTGCGACGTGACATGTTCTTAAAGAGGGGACACACATGTGAAACTCCGCTTAC	3620
OY	1441	AATG 1444	
Db	3621	TCTG 3624	

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RESULT 8
US-09-949-016-2816
; Sequence 2816, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

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PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2816
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2816

Query Match Best Local Similarity 99.2%; Score 1436; DB 4; Length 7109;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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QY 1 GACCCCTGAAAGACTCCCGAGAACTTCAAGAGGCCACCGATGAGTGAAGCTTCAAGCTGCG 60
DB 2181 GACCCCTGAAAGACTCCCGAGAACTTCAAGAGGCCACCGATGAGTGAAGCTTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTGATCAAGGATCTTGGCAGCCCGTGGGAGATCTCTCATTTGACTCTCT 120
DB 2241 CCAAGCTGAGGTGATCAAGGATCTTGGCAGCCCGTGGGAGATCTCTCATTTGACTCTCT 2300
QY 121 CCAAGATCACTCGAAGAAAGTCAAGGACCTTGAAGAGAAATGGCCCTCTGAAAGAGAA 180
DB 2301 CCAAGATCACTCGAAGAAAGTCAAGGACCTTGAAGAGAAATGGCCCTCTGAAAGAGAA 2360
QY 181 CGTAGCGACGTCAATGACCTTCTGCGCAGCTTACCACTTTGGGAGATTCAGCTCAGC 240
DB 2361 CGTAGCGACGTCAATGACCTTCTGCGCAGCTTACCACTTTGGGAGATTCAGCTCAGC 2420
QY 241 GTATTAACCTGAGCACTGTGGAAGACCTGAACACCAATGGAAGCTTCTGAGGTGCGCT 300
DB 2421 GTATTAACCTGAGCACTGTGGAAGACCTGAACACCAATGGAAGCTTCTGAGGTGCGCT 2480
QY 301 CGAGAACCGAGTCAAGGACGTGATGAGCCCAAGAGGACTTTGGTCCAGCATCTCAGCA 360
DB 2481 CGAGAACCGAGTCAAGGACGTGATGAGCCCAAGAGGACTTTGGTCCAGCATCTCAGCA 2540
QY 361 CTTTCTTTCCAGGTCGTGTCAGAGGTCCTTGGAGAGAGCCATCTTGCCAAACAAAGTCC 420
DB 2541 CTTTCTTTCCAGGTCGTGTCAGAGGTCCTTGGAGAGAGCCATCTTGCCAAACAAAGTCC 2600
QY 421 CTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACCATCCCAAAATGACAGAGCT 480
DB 2601 CTACTATATCAACCAAGAGACTCAAACTTGTCTGGGACCATCCCAAAATGACAGAGCT 2660
QY 481 CTACAGTCTTAAAGTCACTGAATTAATGTCAGATTCTCAGCTTAAGAGCTGCGATGAA 540
DB 2661 CTACAGTCTTAAAGTCACTGAATTAATGTCAGATTCTCAGCTTAAGAGCTGCGATGAA 2720
QY 541 ACTCCGAAGACTGCAAGAGGCCCTTGGTGGATCTCTGAGCCTGTGCACTGATGTGA 600
DB 2721 ACTCCGAAGACTGCAAGAGGCCCTTGGTGGATCTCTGAGCCTGTGCACTGATGTGA 2780
QY 601 TGCCTTGACCAAGCAACTCTCAAGCAAAATGACCAAGCCATGATATCTTGCAAGTAT 2840
DB 2781 TGCCTTGACCAAGCAACTCTCAAGCAAAATGACCAAGCCATGATATCTTGCAAGTAT 2900
QY 661 TAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGAGACCAACAATTTGGTCAACGT 720
DB 2841 TAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGAGACCAACAATTTGGTCAACGT 2900
QY 721 CCGCTCTCGGTGATATGTCGTGAACCTGCTGTAATGTTTATGATACGGGAGCAAC 780
DB 2901 CCGCTCTCGGTGATATGTCGTGAACCTGCTGTAATGTTTATGATACGGGAGCAAC 2960
QY 781 AGGAGGATCGGTGCTGCTCTTTAAATGGCATCATTTCCCTGTGTAAGCAATTT 840
DB 2961 AGGAGGATCGGTGCTGCTCTTTAAATGGCATCATTTCCCTGTGTAAGCAATTT 3020
QY 841 GGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAGAGATTTTGGACCA 900
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DB 3021 GGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGGACCA 3080
QY 901 GGGAGGCTGGGCTCTCTTCTGATGATTTATCCAAATTCGAAGACAGTGGTGAAGT 960
DB 3081 GGGAGGCTGGGCTCTCTTCTGATGATTTATCCAAATTCGAAGACAGTGGTGAAGT 3140
QY 961 TGCATCTTTGGGGGAGTAAACATTTGAGCAAGTGTCCGGAGCTGCTCCCAATTTGCTAA 1020
DB 3141 TGCATCTTTGGGGGAGTAAACATTTGAGCAAGTGTCCGGAGCTGCTCCCAATTTGCTAA 3200
QY 1021 TAATTAAGCCAGATTCGAAGCGCCCTTCTTGAAGTGAAGTGAAGTGAAGTGAAGT 1080
DB 3201 TAATTAAGCCAGATTCGAAGCGCCCTTCTTGAAGTGAAGTGAAGTGAAGTGAAGT 3260
QY 1081 CATGCTGTGCTGCGCCGCTGCAAGAGGCTGCTGCAAGAACTGCAAGATTCAGAGC 1140
DB 3261 CATGCTGTGCTGCGCCGCTGCAAGAGGCTGCTGCAAGAACTGCAAGATTCAGAGC 3320
QY 1141 CAAATGTAACTGTGCAAGAGTGTCCAAATCAATGATTCAGGTAACAGAGTCAAGCA 1200
DB 3321 CAAATGTAACTGTGCAAGAGTGTCCAAATCAATGATTCAGGTAACAGAGTCAAGCA 3380
QY 1201 CTTTAATTAAGACATTCGCAAGAGCTGCTTTTCTGCTGAGTTCGCAAGAGCCATTA 1260
DB 3381 CTTTAATTAAGACATTCGCAAGAGCTGCTTTTCTGCTGAGTTCGCAAGAGCCATTA 3440
QY 1261 AATGACTATTCATGAGTGAATTTGCACTCCGACTACATGAGAGAGATGTTGAGA 1320
DB 3441 AATGACTATTCATGAGTGAATTTGCACTCCGACTACATGAGAGAGATGTTGAGA 3500
QY 1321 CTTTGCCAAAGTACTTAAAGAAATTTGGAACCAAAAGTATTTTGGCAAGCATCCCG 1380
DB 3501 CTTTGCCAAAGTACTTAAAGAAATTTGGAACCAAAAGTATTTTGGCAAGCATCCCG 3560
QY 1381 AATGGGCTACTGTCAGTCAAGTCTGTTAAGAGGGGCAACATGGAATCCCGCAAC 1440
DB 3561 AATGGGCTACTGTCAGTCAAGTCTGTTAAGAGGGGCAACATGGAATCCCGCAAC 3620
QY 1441 AATG 1444
DB 3621 TCTG 3624
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RESULT 9
US-09-949-016-2817
Sequence 2817, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2817
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2817

Query Match Best Local Similarity 99.2%; Score 1436; DB 4; Length 7109;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCTTGAAGAGCTCAGAGACTTCAAGAGCCAGATGAGTGAAGCTTCAAGCTCG 60
DB 2181 GACCTTGAAGAGCTCAGAGACTTCAAGAGCCAGATGAGTGAAGCTTCAAGCTCG 2240
QY 61 CCAAGCTGAGGTGATCAAGAGATCTTGGAGAGCCGCTGGAGATCTTCTCATTTGACTCT 120
DB 2241 CCAAGCTGAGGTGATCAAGAGATCTTGGAGAGCCGCTGGAGATCTTCTCATTTGACTCT 2300
QY 121 CCAAGATACCTCGAGAGAGTCAAGAGCACTTCAAGAGAGAAATTTGGCCCTGAAAGAGAA 180
DB 2301 CCAAGATACCTCGAGAGAGTCAAGAGCACTTCAAGAGAGAAATTTGGCCCTGAAAGAGAA 2360
QY 181 CGTAGGACGCTCATGATGACTTGTCTGCGAGCTTCACTTTGGGCACTTCAAGCTTCAAC 240
DB 2361 CGTAGGACGCTCATGATGACTTGTCTGCGAGCTTCACTTTGGGCACTTCAAGCTTCAAC 2420
QY 241 GTATTAACCTCAGACACTTGAAGAGCTGAAACACAGATGAAAGCTTCTGCAAGTGGCGT 300
DB 2421 GTATTAACCTCAGACACTTGAAGAGCTGAAACACAGATGAAAGCTTCTGCAAGTGGCGT 2480
QY 301 CGAGGACCGAGTCAAGGAGCTGAGTGAAGCCCAAGAGCACTTTGGTCCAGACATTCACGA 360
DB 2481 CGAGGACCGAGTCAAGGAGCTGAGTGAAGCCCAAGAGCACTTTGGTCCAGACATTCACGA 2540
QY 361 CTTTCTTTCAAGCTGTCTGCAAGGCTCCTGGAGAGAGCCATCTGCGCAAACTAAAGTGC 420
DB 2541 CTTTCTTTCAAGCTGTCTGCAAGGCTCCTGGAGAGAGCCATCTGCGCAAACTAAAGTGC 2600
QY 421 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAGACT 480
DB 2601 CTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAGACT 2660
QY 481 CTACAGCTTTAGTGAAGCTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 540
DB 2661 CTACAGCTTTAGTGAAGCTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 2720
QY 541 ACTCGAAGAGCTGAGAGAGCCCTTTGCTGGATCTTCTGAGCTGTGAGCTGATGTA 600
DB 2721 ACTCGAAGAGCTGAGAGAGCCCTTTGCTGGATCTTCTGAGCTGTGAGCTGATGTA 2780
QY 601 TGCCTTGAGCAGCAACAACCTCAAGCAAAATGACAGCCCATGATATCTTGACAGATTAT 660
DB 2781 TGCCTTGAGCAGCAACAACCTCAAGCAAAATGACAGCCCATGATATCTTGACAGATTAT 2840
QY 661 TAAATTTGTAACCACTATTTATGACCGCTGAGAGAGCAACAATTTGCTGAAGT 720
DB 2841 TAAATTTGTAACCACTATTTATGACCGCTGAGAGAGCAACAATTTGCTGAAGT 2900
QY 721 CCTCTCTGCGTGAATATGATGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 780
DB 2901 CCTCTCTGCGTGAATATGATGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 2960
QY 781 AGGAGAGATCCGTGTCTGCTTTTAAACTGCAATCAATTTCCCTGTGTAAGCAATTT 840
DB 2961 AGGAGAGATCCGTGTCTGCTTTTAAACTGCAATCAATTTCCCTGTGTAAGCAATTT 3020
QY 841 GGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 900
DB 3021 GGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 3080
QY 901 GCGAGAGCTGGAGCCCTTCTGCAATGATTTCAATTTCAAGAGAGTGGGAGT 960
DB 3081 GCGAGAGCTGGAGCCCTTCTGCAATGATTTCAATTTCAAGAGAGTGGGAGT 3140
QY 961 TGCAATCTTTGGGAGCAATTTGAGCAAGTGTCCGAGCTGCTTCAATTTGCTAA 1020
DB 3141 TGCAATCTTTGGGAGCAATTTGAGCAAGTGTCCGAGCTGCTTCAATTTGCTAA 3200
QY 1021 TAAATTAAGCAAGATGAGAGGAGCCCTTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1080
DB 3201 TAAATTAAGCAAGATGAGAGGAGCCCTTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 3260
QY 1081 CATGATGTGGCTGAGCCGTCTGCAAGAGTGGCTGTCAGAAATCTGCAAGCATCAGG 1140

DB 3261 CATGATGTGGCTGAGCCGTCTGCAAGAGTGGCTGTCAGAAATCTGCAAGCATCAGG 3320
QY 1141 CAAATGTAACATCTGCAAGAGAGTGTCCAAATGATGATTCAGAGTCAAGAGCTTAAACA 1200
DB 3321 CAAATGTAACATCTGCAAGAGAGTGTCCAAATGATGATTCAGAGTCAAGAGCTTAAACA 3380
QY 1201 CTTTAAATTAATGACATCTGCAAGAGAGTGTCTTTTCTGCTGAGTTCGAAAGGCAATTA 1260
DB 3381 CTTTAAATTAATGACATCTGCAAGAGAGTGTCTTTTCTGCTGAGTTCGAAAGGCAATTA 3440
QY 1261 AATGACATATCCATGATGTAATTTGCACTTCCGATCAATCAGAGAGAGATTTTGAGA 1320
DB 3441 AATGACATATCCATGATGTAATTTGCACTTCCGATCAATCAGAGAGAGATTTTGAGA 3500
QY 1321 CTTTGCCAGAGTACTTAAATAAACTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1380
DB 3501 CTTTGCCAGAGTACTTAAATAAACTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 3560
QY 1381 AATGGCTACCTGCGAGTGCAGAGCTGTCTTGAAGGAGGAGCAATGAGAACTCCGAC 1440
DB 3561 AATGGCTACCTGCGAGTGCAGAGCTGTCTTGAAGGAGGAGCAATGAGAACTCCGAC 3620
QY 1441 AATG 1444
DB 3621 TCTG 3624

RESULT 10
US-09-949-016-2818
; Sequence 2818, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2818
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2818

Query Match 99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCTTGAAGAGCTCAGAGACTTCAAGAGCCAGATGAGTGAAGCTTCAAGCTCG 60
DB 2181 GACCTTGAAGAGCTCAGAGACTTCAAGAGCCAGATGAGTGAAGCTTCAAGCTCG 2240
QY 61 CCAAGCTGAGGTGATCAAGAGATCTTGGAGAGCCGCTGGAGATCTTCTCATTTGACTCT 120
DB 2241 CCAAGCTGAGGTGATCAAGAGATCTTGGAGAGCCGCTGGAGATCTTCTCATTTGACTCT 2300
QY 121 CCAAGATACCTCGAGAGAGTCAAGAGCACTTCAAGAGAGAAATTTGGCCCTGAAAGAGAA 180
DB 2301 CCAAGATACCTCGAGAGAGTCAAGAGCACTTCAAGAGAGAAATTTGGCCCTGAAAGAGAA 2360
QY 181 CGTAGGACGCTCATGATGACTTGTCTGCGAGCTTCACTTTGGGCACTTCAAGCTTCAAC 240
DB 2361 CGTAGGACGCTCATGATGACTTGTCTGCGAGCTTCACTTTGGGCACTTCAAGCTTCAAC 2420

QY	241	GTATTAACCTCAGCACTCTGGAAAGCTTGAAACACCAAGATGGAAGCTTCTGAGGTGGCCGT	300
Db	2421	GTATTAACCTCAGCACTCTGGAAAGCTTGAAACACCAAGATGGAAGCTTCTGAGGTGGCCGT	248
QY	301	CGAGAACCGAGTCAAGGACGTGCATGAAAGCCCAAGGACCTTTGGTTCAGCATCTCAGCA	360
Db	2481	CGAGAACCGAGTCAAGGACGTGCATGAAAGCCCAAGGACCTTTGGTTCAGCATCTCAGCA	254
QY	361	CTTTCTTTTCCAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTGCACAAAGATGCC	420
Db	2541	CTTTCTTTTCCAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTGCACAAAGATGCC	260
QY	421	CTACTATATCAACACGAGACTGAAACACTGCTGGACACATCCCAAAATGACAGAGCT	480
Db	2601	CTACTATATCAACACGAGACTGAAACACTGCTGGACACATCCCAAAATGACAGAGCT	260
QY	481	CTACCAAGCTTTTAACTGACCTGAATTAATGTCAATTTCTAGCTTATAGGACTGCATGA	540
Db	2661	CTACCAAGCTTTTAACTGACCTGAATTAATGTCAATTTCTAGCTTATAGGACTGCATGA	2720
QY	541	ACTCCGAAGACGTGAGAAAGGCCCTTTGGTGTGATCTCTGAGCTGTGACGTGCATGTGA	600
Db	2721	ACTCCGAAGACGTGAGAAAGGCCCTTTGGTGTGATCTCTGAGCTGTGACGTGCATGTGA	2780
QY	601	TGCTTGGACCAAGCAACCTCAAGCAAAATGACACGACCATGATATCTGCAGATAT	660
Db	2781	TGCTTGGACCAAGCAACCTCAAGCAAAATGACACGACCATGATATCTGCAGATAT	2840
QY	661	TAATGTTTGAACAATTTTAATGACCGCTCGAGCAAGACCAAAATTTGGTCAACGT	720
Db	2841	TAATGTTTGAACAATTTTAATGACCGCTCGAGCAAGACCAAAATTTGGTCAACGT	2900
QY	721	CCCTCTCTGCGTGAATATGTCTGAACCTGCTGATGATGTTATGATAGGGAGCAAC	780
Db	2901	CCCTCTCTGCGTGAATATGTCTGAACCTGCTGATGATGTTATGATAGGGAGCAAC	2960
QY	781	AGGAGAGATCCGTCCTGTCTTTTAAACCTGGACATCAATTCCTGTGTAAAGCACATTT	840
Db	2961	AGGAGAGATCCGTCCTGTCTTTTAAACCTGGACATCAATTCCTGTGTAAAGCACATTT	3020
QY	841	GGAAAGCAAGTACAGATACCTTTTCAAGAGAGTGGCAAGTTCACAGAGATTTGTGACCA	900
Db	3021	GGAAAGCAAGTACAGATACCTTTTCAAGAGAGTGGCAAGTTCACAGAGATTTGTGACCA	3080
QY	901	GGCGAGGCTGGGCTCTCTTCTGCATGATCTTATCCAAATTTCCAGACAGTTGGGTGAAGT	960
Db	3081	GGCGAGGCTGGGCTCTCTTCTGCATGATCTTATCCAAATTTCCAGACAGTTGGGTGAAGT	3140
QY	961	TGCATCTCTTTGGGGCAGTAAACATTTAGACCAAAGTGCAGAGCTGCTTCCAAATTTGCTAA	1020
Db	3141	TGCATCTCTTTGGGGCAGTAAACATTTAGACCAAAGTGCAGAGCTGCTTCCAAATTTGCTAA	3200
QY	1021	TAATTAAGCCAGATCGAAGCGGCTCTTCTTCTTGACTGATGAGACTGGAACCCGAGTCC	1080
Db	3201	TAATTAAGCCAGATCGAAGCGGCTCTTCTTCTTGACTGATGAGACTGGAACCCGAGTCC	3260
QY	1081	CATGCTGTGGCTGGCCGCTCTGCAACAAGTGGCTGTGCAAACTGCCAAGCATGAGCT	1140
Db	3261	CATGCTGTGGCTGGCCGCTCTGCAACAAGTGGCTGTGCAAACTGCCAAGCATGAGCT	3320
QY	1141	CAAAATGTAACTTGCAGAAAGAGTGTCCAAATCATTTGATTCAGGATCAGGAGTCTTAAAGTA	1200
Db	3321	CAAAATGTAACTTGCAGAAAGAGTGTCCAAATCATTTGATTCAGGATCAGGAGTCTTAAAGTA	3380
QY	1201	CTTTAATTAATGACATCTGGCAAAAGCTGCTTTTCTTGTGCAAGTTGCAAAAGGCATTA	1260
Db	3381	CTTTAATTAATGACATCTGGCAAAAGCTGCTTTTCTTGTGCAAGTTGCAAAAGGCATTA	3440
QY	1261	AATGCACTATCCATGCTGTGATATATTCGACTCCGACTAATCAGAGAGAAAGATGTTGCGGA	1320
Db	3441	AATGCACTATCCATGCTGTGATATATTCGACTCCGACTAATCAGAGAGAAAGATGTTGCGGA	3500
QY	1321	CTTTGCCAAGTACTAAAAACAATTTTGGAACCAAAAGTATTTTGGAGACATCCCCG	1380

Db	3501	CTTTGCCAAGGTA	CTTTAAAA	CAAAATTT	CGAACCA	AAAGGTA	TTTTCGA	AGATC	TC	CCCG	3560
QY	1381	AATGGGCTACTG	CGCAGTGC	AGACTG	CTGCTT	AGAGGGGG	GAACAACAT	TGGA	AAATC	CCCGACAC	1440
Db	3561	AATGGGCTACTG	CGCAGTGC	AGACTG	CTT	AGAGGGGG	GAACAACAT	TGGA	AAATC	CCCGACAC	3620
QY	1441	AATG	1444								
Db	3621	TCTG	3624								

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RESULT 11
US-09-949-016-2819
; Sequence 2819, Application US/0949016
; Patent No. 681239
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C10011307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2819
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2819

Query Match          99.2%; Score 1436; DB 4; Length 7109;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

1  GACCTTGAAAGACTCCGAGAACTTCAAGAGCCAGATGAGCTGAGCTCAAGCTGCG 60
dbp  GACCTTGAAAGACTCCGAGAACTTCAAGAGCCAGATGAGCTGAGCTCAAGCTGCG 2240

61  CCAAGCTGAGGTATTCAGAGGATCCCTGCGACGCCCTGGCGCATCTCTCATTAAGCTTCT 120
dbp  CCAAGCTGAGGTATTCAGAGGATCCCTGCGACGCCCTGGCGCATCTCTCATTAAGCTTCT 2241

2241 CCAAGCTGAGGTATTCAGAGGATCCCTGCGACGCCCTGGCGCATCTCTCATTAAGCTTCT 2300

121 CCAAGATCACTTCGAGAAAGTCAGAGCACTTCGAGAGAAATTGGCCCTGTAAGAGAA 180
dbp  CCAAGATCACTTCGAGAAAGTCAGAGCACTTCGAGAGAAATTGGCCCTGTAAGAGAA 2301

2301 CCAAGATCACTTCGAGAAAGTCAGAGCACTTCGAGAGAAATTGGCCCTGTAAGAGAA 2360

181 CGTAGAGCAAGTCAGAAAGCCTTGCTCGCCAGAGTTACACTTTGGGCATTCAGCTCTCAC 240
dbp  CGTAGAGCAAGTCAGAAAGCCTTGCTCGCCAGAGTTACACTTTGGGCATTCAGCTCTCAC 2261

2261 CGTAGAGCAAGTCAGAAAGCCTTGCTCGCCAGAGTTACACTTTGGGCATTCAGCTCTCAC 2420

241 GTTAACTTCAGCACTTCTGAAAGCCTGAAACAACAGATGAAAGCTTCTGCAGGTGGCCGT 300
dbp  GTTAACTTCAGCACTTCTGAAAGCCTGAAACAACAGATGAAAGCTTCTGCAGGTGGCCGT 2421

2421 GTTAACTTCAGCACTTCTGAAAGCCTGAAACAACAGATGAAAGCTTCTGCAGGTGGCCGT 2480

301 CGAGAGCCGAGTCAGGAGAGCTGCATGAAAGCCCAAGAGGACCTTTGGTCCAGCATTCAGCA 360
dbp  CGAGAGCCGAGTCAGGAGAGCTGCATGAAAGCCCAAGAGGACCTTTGGTCCAGCATTCAGCA 2481

2481 CGAGAGCCGAGTCAGGAGAGCTGCATGAAAGCCCAAGAGGACCTTTGGTCCAGCATTCAGCA 2540

361 CTTTCTTTCCACGCTGTCGACGAGGTCCTCTGGAGAGAGCCCATCTCGCAAAAGTGGCC 420
dbp  CTTTCTTTCCACGCTGTCGACGAGGTCCTCTGGAGAGAGCCCATCTCGCAAAAGTGGCC 2541

2541 CTTTCTTTCCACGCTGTCGACGAGGTCCTCTGGAGAGAGCCCATCTCGCAAAAGTGGCC 2600

421 CTACTATATCAACCAACGAGACTCAAAACAACCTGTGGGACCATCTCCAAAATGACAGAGCT 480
dbp  CTACTATATCAACCAACGAGACTCAAAACAACCTGTGGGACCATCTCCAAAATGACAGAGCT 2601

2601 CTACTATATCAACCAACGAGACTCAAAACAACCTGTGGGACCATCTCCAAAATGACAGAGCT 2660

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QY	721	CCCTCTGCGGTGGATATGATGCTGAACTGGCTGCTGAACTGTTATATGATACGGGACCAAC	780
Db	2901	CCCTCTCTGCGGTGGATATGATGCTGAACTGGCTGCTGAACTGTTATATGATACGGGACCAAC	2960
QY	781	AGGAGAGATCCGTGTCTGTCTTTTAAACATGGGATCATTTCCCTGTGTAAAGACATTT	840
Db	2961	AGGAGAGATCCGTGTCTGTCTTTTAAACATGGGATCATTTCCCTGTGTAAAGACATTT	3020
QY	841	GGAAGACAGTACAGATACCTTTTCAGAGAGTGGCAAGTTCAACAGATTTTGTACCA	900
Db	3021	GGAAGACAGTACAGATACCTTTTCAGAGAGTGGCAAGTTCAACAGATTTTGTACCA	3080
QY	901	GGGAGGCTGGGGCCCTCTTGCAATGATCTATCCAAATTCAGACACAGTTGGGTGAAGT	960
Db	3081	GGGAGGCTGGGGCCCTCTCTGCAATGATCTATCCAAATTCAGACACAGTTGGGTGAAGT	3140
QY	961	TGCATCCCTTTGGGGGCAAGTAACTTTAGAGCCAAAGTCCGGAGCTGCTTCCAAATTTGCTAA	1020
Db	3141	TGCATCCCTTTGGGGGCAAGTAACTTTAGAGCCAAAGTCCGGAGCTGCTTCCAAATTTGCTAA	3200
QY	1021	TAAATAGCCAGAGATCGAAGCGGCCCTTCTTGATCTGATGAGACTGGAAACCCCAAGTC	1080
Db	3201	TAAATAGCCAGAGATCGAAGCGGCCCTTCTTGATCTGATGAGACTGGAAACCCCAAGTC	3260
QY	1081	CATGCTGGGTGGCCCGCTGCTGCAACAGATGGCTGCTGCAAAATCTGCCAAGCATCGGC	1140
Db	3261	CATGCTGGGTGGCCCGCTGCTGCAACAGATGGCTGCTGCAAAATCTGCCAAGCATCGGC	3320
QY	1141	CAAAATGTTAACTCTGCAAAAGAGTCCCAATCATTTGGAATTCAGGTACAGAGACTCTAAAGCA	1200
Db	3321	CAAAATGTTAACTCTGCAAAAGAGTCCCAATCATTTGGAATTCAGGTACAGAGACTCTAAAGCA	3380
QY	1201	CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTTGCTGAGTTGCCAAAGGCCATAA	1260
Db	3381	CTTTAATTATGACATCTGCCAAAGCTGCTTTTCTTGCTGAGTTGCCAAAGGCCATAA	3440
QY	1261	AATACCATATCCCATGTGTGGAAATTTGCACTCCGACATACATCAGAGAAAGATGTTCCAGA	1320
Db	3441	AATACCATATCCCATGTGTGGAAATTTGCACTCCGACATACATCAGAGAAAGATGTTCCAGA	3500
QY	1321	CTTTGCGCAAGGTACTTAAAAACAATTTTCGAAACCAAAAGGATTTTTCGAAAGCATCCCGG	1380
Db	3501	CTTTGCGCAAGGTACTTAAAAACAATTTTCGAAACCAAAAGGATTTTTCGAAAGCATCCCGG	3560
QY	1381	AATGGGCTACCTGGCAAGTGAAGACTGTTTAAAGAGGGGAGCAACAATGAAAACTCCCGACAC	1440
Db	3561	AATGGGCTACCTGGCAAGTGAAGACTGTTTAAAGAGGGGAGCAACAATGAAAACTCCCGTAC	3620
QY	1441	AATG 1444	
Db	3621	TCTG 3624	

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RESULT 13
US-09-949-016-2822
; Sequence 2822, Application US/09949016
; Patent No 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2822

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; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2822

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Query Match	99.2%	Score 1436;	DB 4;	Length 7141;
Best Local Similarity	99.7%	Pred. No. 0;		
Matches 1439; Conservative	0;	Mismatches 5;	Indels 0;	Gaps 0;

QY	1	GACCTTGAAGAAGCTCCAGGAACCTTCAAGAGGCCACGATGAGCTGCAACCTCAAGCTGCG	60
Db	2181	GACCTTGAAGAAGCTCCGGGAACCTTCAAGAGGCCACGATGAGCTGCAACCTCAAGCTGCG	2240
QY	61	CCAACTGAGGTGATCAAGGGATCTTGGCAGCCCTGTGGCGATCTCTCATTTGACTCTCT	120
Db	2241	CCAACTGAGGTGATCAAGGGATCTTGGCAGCCCTGTGGCGATCTCTCATTTGACTCTCT	2300
QY	121	CCAAATCACCCTCGAAGAAAGTCMAAGGACCTTCAGAGAGAAATTGGCGCTCTGAAAGGAA	180
Db	2301	CCAAATCACCCTCGAAGAAAGTCMAAGGACCTTCAGAGAGAAATTGGCGCTCTGAAAGGAA	2360
QY	181	CGTAGGCAACGTCATAGCTTGTGTCGCCACGCTTACCACTTTTGGGCAATTGACTCTAC	240
Db	2361	CGTAGGCAACGTCATAGCTTGTGTCGCCACGCTTACCACTTTTGGGCAATTGACTCTAC	2420
QY	241	GTATTAACCTGAGCACTCTGGAAGAAGCTTGAACACCAATGGAAGCTTTCAGAGTGGCGT	300
Db	2421	GTATTAACCTGAGCACTCTGGAAGAAGCTTGAACACCAATGGAAGCTTTCAGAGTGGCGT	2480
QY	301	CGAGAGACCGAGTCAGGCAAGCTGCAATGAAGCCACAGGGAATTGGTTCAGATTCAGCA	360
Db	2481	CGAGAGACCGAGTCAGGCAAGCTGCAATGAAGCCACAGGGAATTGGTTCAGATTCAGCA	2540
QY	361	CTTTCCTTCCACGCTGTGCAAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAATGGCC	420
Db	2541	CTTTCCTTCCACGCTGTGCAAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAATGGCC	2600
QY	421	CTACTATATCAACCAAGAGCTCAACCAACTGTGTGGAGCAATCCAAATATGACAGAGCT	480
Db	2601	CTACTATATCAACCAAGAGCTCAACCAACTGTGTGGAGCAATCCAAATATGACAGAGCT	2660
QY	481	CTATCAAGTCTTTAGCTGACCTGAAATATGTTCAGATTTCTAGCTTATATGAGCTGCAATGAA	540
Db	2661	CTATCAAGTCTTTAGCTGACCTGAAATATGTTCAGATTTCTAGCTTATATGAGCTGCAATGAA	2720
QY	541	ACTCCGAAGCTGAGAGAGGCCCTTGGCTTGGATCTCTTGAAGCTGTACAGCTGATGTA	600
Db	2721	ACTCCGAAGCTGAGAGAGGCCCTTGGCTTGGATCTCTTGAAGCTGTACAGCTGATGTA	2780
QY	601	TGCTTGGACAGACCAACTCAAGCAAAATGACCAAGCCATGGATATCTGTGACATTAAT	660
Db	2781	TGCTTGGACAGACCAACTCAAGCAAAATGACCAAGCCATGGATATCTGTGACATTAAT	2840
QY	661	TAATTGTTTGAACAATTTATATGACCGCTGTGAGCAAGAGCAACAATTTGTCAACGT	720
Db	2841	TAATTGTTTGAACAATTTATATGACCGCTGTGAGCAAGAGCAACAATTTGTCAACGT	2900
QY	721	CCCTCTGTGTGGATATGTGTGCGAATCTGGCGCTGAAATGTTTATATGATACGGGACGAA	780
Db	2901	CCCTCTGTGTGGATATGTGTGCGAATCTGGCGCTGAAATGTTTATATGATACGGGACGAA	2960
QY	781	AGGAGAGATCCGTGCTCTCTTTTAAATCTGCATCATTTCCCTGTGTAAGCACATTT	840
Db	2961	AGGAGAGATCCGTGCTCTCTTTTAAATCTGCATCATTTCCCTGTGTAAGCACATTT	3020
QY	841	GGAAGACAATGACAGATACCTTTTCAAGAGTGGCAAGTTCAACAGATTTTGTGACCA	900
Db	3021	GGAAGACAATGACAGATACCTTTTCAAGAGTGGCAAGTTCAACAGATTTTGTGACCA	3080
QY	901	GCGCAGGCTGGGCTCTCTTGTGATGATTTATTCAAATTCGAAGACAGTTGGGTGAAGT	960
Db	3081	GCGCAGGCTGGGCTCTCTTGTGATGATTTATTCAAATTCGAAGACAGTTGGGTGAAGT	3140

QY 961 TGCATCTTTGGGGGAGTAACATTGAGCCAGTGTCCGAGCTGCTTCCATTGCTTA 1020
DB 3141 TGCATCTTTGGGGGAGTAACATTGAGCCAGTGTCCGAGCTGCTTCCATTGCTTA 3200
QY 1021 TAATTAAGCCAGAGATCGAAGCGGCTCTTCTCTAGACCTGGATGAGACTGGAA 1080
DB 3201 TAATTAAGCCAGAGATCGAAGCGGCTCTTCTCTAGACCTGGATGAGACTGGAA 3260
QY 1081 CATGTGTGGCTGCGCCGCTCTGCAAGAGTGTCTGTGCAAGAACTGCCAAGCATCAGGC 1140
DB 3261 CATGTGTGGCTGCGCCGCTCTGCAAGAGTGTCTGTGCAAGAACTGCCAAGCATCAGGC 3320
QY 1141 CAAATGTAACTCTGCAAGAGTGTCTGCAATCTGATGATCAGGATCAGGATCTAAAGA 1200
DB 3321 CAAATGTAACTCTGCAAGAGTGTCTGCAATCTGATGATCAGGATCAGGATCTAAAGA 3380
QY 1201 CTTTAATTATGACATCTGCAAGGCTCTTTTCTGTGCTGAGTTGCAAAAGCCATTA 1260
DB 3381 CTTTAATTATGACATCTGCAAGGCTCTTTTCTGTGCTGAGTTGCAAAAGCCATTA 3440
QY 1261 AATGACATATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAAAGATTTCAGA 1320
DB 3441 AATGACATATCCCATGTGTGAATATTGCACTCCGACTACATCAGAGAAAGATTTCAGA 3500
QY 1321 CTTTGCCAAAGGTACTTAAATAAATAATTTGCAACCAAAAGGTATTTTGGCAAGCATCCCG 1380
DB 3501 CTTTGCCAAAGGTACTTAAATAAATAATTTGCAACCAAAAGGTATTTTGGCAAGCATCCCG 3560
QY 1381 AATGGGCTACCTGCCAGTGTCTGTCTTGAAGGGGGGCAACATGAAAATCTCCGACAC 1440
DB 3561 AATGGGCTACCTGCCAGTGTCTGTCTTGAAGGGGGGCAACATGAAAATCTCCGACAC 3620
QY 1441 AATG 1444
DB 3621 TCTG 3624

RESULT 14
US-09-949-016-2823
Sequence 2823, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2823
LENGTH: 7141
TYPE: DNA
ORGANISM: Human
US-09-949-016-2823

Query Match 99.2%; Score 1436; DB 4; Length 7141;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCTTGAAGACCTCCAGAACTTCAAGAGCCAGATGAGTGGACCTCAAGCTGCG 60
DB 2181 GACCTTGAAGACCTCCAGAACTTCAAGAGCCAGATGAGTGGACCTCAAGCTGCG 2240
QY 61 CCAAGCTGAGGTATCAAGGATCTGTGGACGCCGTGGCGCATCTTCTGATGACTCTCT 120
DB 2241 CCAAGCTGAGGTATCAAGGATCTGTGGACGCCGTGGCGCATCTTCTGATGACTCTCT 2300

QY 121 CCAAGATCACCTCGAAGAGTCAAGGCACTTCAAGAGAAATTTGGCCCTTGAAGAGA 180
DB 2301 CCAAGATCACCTCGAAGAGTCAAGGCACTTCAAGAGAAATTTGGCCCTTGAAGAGA 2360
QY 181 CGTGAACCACTCAATGACCTTGTCTGCGCACTTCACTTGTGGCATTCAGCTCTCAC 240
DB 2361 CGTGAACCACTCAATGACCTTGTCTGCGCACTTCACTTGTGGCATTCAGCTCTCAC 2420
QY 241 GTATTAACCTCAGCACTCTGGAAGACCTGAAACCAAGATGAAAGCTTTCAGAGTGGCG 300
DB 2421 GTATTAACCTCAGCACTCTGGAAGACCTGAAACCAAGATGAAAGCTTTCAGAGTGGCG 2480
QY 301 CGAGACCGAGTCAAGGCTGCTCAAGAGCCACAGAGGACTTTGGTCCAGCATCTCAGCA 360
DB 2481 CGAGACCGAGTCAAGGCTGCTCAAGAGCCACAGAGGACTTTGGTCCAGCATCTCAGCA 2540
QY 361 CTTTCTTTCAAGTGTCTGCAAGGCTCCTGGAGAGAGCCATCTGCGCAAAAGAGTGC 420
DB 2541 CTTTCTTTCAAGTGTCTGCAAGGCTCCTGGAGAGAGCCATCTGCGCAAAAGAGTGC 2600
QY 421 CTACTATATCAACGAGAGCTCAAACTTGTGCGGACCATCCCAAAATGACAGAGT 480
DB 2601 CTACTATATCAACGAGAGCTCAAACTTGTGCGGACCATCCCAAAATGACAGAGT 2660
QY 481 CTACCACTTTAAGCTGACCTGAATATATGATGATTTCTAGCTTATAGGATCCCATGTA 540
DB 2661 CTACCACTTTAAGCTGACCTGAATATATGATGATTTCTAGCTTATAGGATCCCATGTA 2720
QY 541 ACTCCGAAGACTGCAAGAGGCTTGTGCTGTGATCTCTTGAAGCTGTGACGTGATGTA 600
DB 2721 ACTCCGAAGACTGCAAGAGGCTTGTGCTGTGATCTCTTGAAGCTGTGACGTGATGTA 2780
QY 601 TGCCTTGAACGAGCACTTCAAGCAAAATGACCAAGCCATGATATCTTCAATAT 660
DB 2781 TGCCTTGAACGAGCACTTCAAGCAAAATGACCAAGCCATGATATCTTCAATAT 2840
QY 661 TAATGTTTGAACCACTATTTATGACCGCTGGAGCAAGCAAAATTTGGTCAACGT 720
DB 2841 TAATGTTTGAACCACTATTTATGACCGCTGGAGCAAGCAAAATTTGGTCAACGT 2900
QY 721 CCTCTCTGCGTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
DB 2901 CCTCTCTGCGTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2960
QY 781 AGGAGATCCGTGTCTGTCTTTTAAACTGCGATCATTTCCCTGTGTAAAGCATTT 840
DB 2961 AGGAGATCCGTGTCTGTCTTTTAAACTGCGATCATTTCCCTGTGTAAAGCATTT 3020
QY 841 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAAGGATTTTGAAGCA 900
DB 3021 GGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAAGGATTTTGAAGCA 3080
QY 901 GCGCAGCTGGGCTCTCTTCTGATGATTTTCAAAATTCAGAGCAAGTGGTGAAGT 960
DB 3081 GCGCAGCTGGGCTCTCTTCTGATGATTTTCAAAATTCAGAGCAAGTGGTGAAGT 3140
QY 961 TGCATCTTTGGGGGAGTAACATTGAGCCAGTGTCCGAGCTGCTTCCATTGCTTA 1020
DB 3141 TGCATCTTTGGGGGAGTAACATTGAGCCAGTGTCCGAGCTGCTTCCATTGCTTA 3200
QY 1021 TAATTAAGCCAGAGATCGAAGCGGCTCTTCTCTAGACCTGGATGAGACTGGAA 1080
DB 3201 TAATTAAGCCAGAGATCGAAGCGGCTCTTCTCTAGACCTGGATGAGACTGGAA 3260
QY 1081 CATGTGTGGCTGCGCCGCTCTGCAAGAGTGTCTGTGCAAGAACTGCCAAGCATCAGGC 1140
DB 3261 CATGTGTGGCTGCGCCGCTCTGCAAGAGTGTCTGTGCAAGAACTGCCAAGCATCAGGC 3320
QY 1141 CAAATGTAACTCTGCAAGAGTGTCTGCAATCTGATGATCAGGATCAGGATCTAAAGA 1200
DB 3321 CAAATGTAACTCTGCAAGAGTGTCTGCAATCTGATGATCAGGATCAGGATCTAAAGA 3380

QY 1201 CTTTAAATATGACATCTGCCAAAGCTGTTTTTTCTGTCGATTCGAAAAAGCCATTA 1260
DB 3381 CTTTAAATATGACATCTGCCAAAGCTGTTTTTTCTGTCGATTCGAAAAAGCCATTA 3440
QY 1261 AATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAGAAAGATTTCGGA 1320
DB 3441 AATGCACTATCCCATGCTGGAATATTGCACTCCGACTACATCAGAGAGAAAGATTTCGGA 3500
QY 1321 CTTTGCAGAGTACTAAATAAATAATTTTCGAAACCAAAAGTATTTCGGAAGCATCCCG 1380
DB 3501 CTTTGCAGAGTACTAAATAAATAATTTTCGAAACCAAAAGTATTTCGGAAGCATCCCG 3560
QY 1381 AATGGCTACTCTGCCAGTGCAGACTGCTTTAGAGGGGAGCAACATGGAATCTCCGACAC 1440
DB 3561 AATGGCTACTCTGCCAGTGCAGACTGCTTTAGAGGGGAGCAACATGGAATCTCCGATTAC 3620
QY 1441 AATG 1444
DB 3621 TCTG 3624

RESULT 15
US-09-949-016-2824
; Sequence 2824, Application US/09949016
; Patent No.: 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2824
; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2824

Query Match 99.2%; Score 1436; DB 4; Length 7141;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1439; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 2301 CCAAGATCACTCGAGAAAGTCAAGGCACTTCAGAGAGAAATGGCGCTTGAAGAGAA 2360
QY 181 CGTAGGCACTGATGATGATCTTGTGCGCAGCTTACCACTTTGGGATTCAGCTCTCACC 240
DB 2361 CGTAGGCACTGATGATGATCTTGTGCGCAGCTTACCACTTTGGGATTCAGCTCTCACC 2420
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DB 2481 CGAGGACCGAGTGAAGGCACTGATGAAGCCCAAGGAGCTTTGGTCCAGCATCTCAGCA 2540

QY 361 CTTTCTTTCCAGCTGCTGTCGAGGCTCCCTGGAGAGAGCCATCTCCGCAAAAGATGCC 420
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DB 2661 CTACCAAGCTTTTGAAGTGAAGTGAATATGTCAGATTCCTGAGCTTTATGAGACTGCGATGAA 2720
QY 541 ACTCCGAAGACTGAGAGAGGCTTTGGCTGGAGTCTTTGAGCTGTGACCTGATGATGTA 600
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Thu Mar 3 09:50:57 2005

us-09-845-416-14_copy_2000_3446.rni

Page 15

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Db	3621	TCTG	3624

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Job time : 256.835 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 06:35:12 ; Search time 897.381 Seconds
(without alignments)
9911.195 Million cell updates/sec

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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1501	100.0	10	US-09-845-416-12 Sequence 12, Appl
2	1501	100.0	3531	10 US-09-845-416-10 Sequence 10, Appl
3	1501	100.0	3858	10 US-09-845-416-9 Sequence 9, Appl
4	1501	100.0	3999	10 US-09-845-416-6 Sequence 6, Appl
5	1501	100.0	4182	10 US-09-845-416-2 Sequence 2, Appl
6	1501	100.0	4476	10 US-09-845-416-31 Sequence 31, Appl
7	1501	100.0	4498	10 US-09-845-416-30 Sequence 30, Appl
8	1501	100.0	4825	10 US-09-845-416-29 Sequence 29, Appl
9	1501	100.0	4848	10 US-09-845-416-25 Sequence 35, Appl
10	1501	100.0	4966	10 US-09-845-416-28 Sequence 28, Appl
11	1501	100.0	4990	10 US-09-845-416-34 Sequence 34, Appl

12	1501	100.0	5060	10	US-09-845-416-36	Sequence 36, Appl
13	1501	100.0	5149	10	US-09-845-416-27	Sequence 27, Appl
14	1500	99.9	8689	17	US-10-149-736-42	Sequence 42, Appl
15	1500	99.9	11058	10	US-09-845-416-1	Sequence 1, Appl
16	1500	99.9	11443	17	US-10-149-736-44	Sequence 44, Appl
17	1500	99.9	13957	9	US-09-782-378A-22	Sequence 22, Appl
18	1500	99.9	13957	9	US-09-880-107-2284	Sequence 2284, Ap
19	1500	99.9	13957	17	US-10-149-736-1	Sequence 1, Appl
20	1500	99.9	14069	17	US-10-172-118-434	Sequence 434, App
21	1500	99.9	14069	17	US-10-342-887-434	Sequence 434, App
22	1500	99.9	14082	17	US-10-341-434-108	Sequence 108, App
23	1500	99.9	14082	17	US-10-172-118-981	Sequence 981, App
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25	1498	99.8	1821	10	US-09-845-416-13	Sequence 13, Appl
26	1498	99.8	2169	10	US-09-845-416-4	Sequence 4, Appl
27	1496.8	99.7	5462	17	US-10-149-736-40	Sequence 40, Appl
28	1496.8	99.7	5462	17	US-10-149-736-41	Sequence 41, Appl
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30	1438.6	95.8	3446	10	US-09-845-416-14	Sequence 14, Appl
31	1438.6	95.8	4414	10	US-09-845-416-32	Sequence 32, Appl
32	1434	95.5	1434	10	US-09-845-416-15	Sequence 15, Appl
33	1433.4	95.5	5417	17	US-10-149-736-39	Sequence 39, Appl
34	1309.6	87.2	13815	17	US-10-149-736-2	Sequence 2, Appl
35	887	59.1	887	17	US-10-149-736-35	Sequence 35, Appl
36	787.6	52.5	10705	17	US-10-152-319A-1598	Sequence 1598, Ap
37	785.2	52.3	11096	17	US-10-149-736-4	Sequence 4, Appl
38	755.6	50.3	10302	9	US-09-782-378A-23	Sequence 23, Appl
39	755.6	50.3	10302	17	US-10-149-736-3	Sequence 3, Appl
40	746.8	49.8	16531	15	US-10-101-510-667	Sequence 667, App
41	662.8	44.2	5106	17	US-10-220-120-157	Sequence 157, App
42	324	21.6	324	17	US-10-149-736-33	Sequence 33, Appl
43	216	14.4	216	17	US-10-149-736-34	Sequence 34, Appl
44	114	7.6	114	17	US-10-149-736-45	Sequence 45, Appl
45	88	5.9	2247	9	US-09-960-253-157	Sequence 157, App

ALIGNMENTS

RESULT 1
US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845, 416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200, 777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-12

Query Match 100.0%; Score 1501; DB 10; Length 3510;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 361 CCGTCGAGAGCCGAGTCAGGACGTGATGAAAGCCCAAGGACCTTGTGTCAGCATCTC 420
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Qy 421 AGCACTTTCTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGGCCATCTGCCAAGAAAG 480
Db 2420 AGCACTTTCTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGGCCATCTGCCAAGAAAG 2479
Qy 481 TGCCTTATATATCAACCAAGACTCAACCACTTGTGGGACCATCCCAAAATGACG 540
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Qy 1501 A 1501
Db 3500 A 3500

RESULT 2

US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR APPLICATION NUMBER: 2001-04-30
; PRIOR FILING DATE: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 100.0%; Score 1501; DB 10; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 3101 CTATATTAAGCCAGAGATCGAAGCGGCTCTTCTAGACTGATGAGATGGAACCC 3160
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Db 3341 ATTAATATGATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3400
Qy 1381 GAGACTTGGCAAGGTCTATAAAACAATTTGAAACCAAAAGGATTTTGGAGGATC 1440
Db 3401 GAGACTTGGCAAGGTCTATAAAACAATTTGAAACCAAAAGGATTTTGGAGGATC 3460
Qy 1441 CCGCAATGGGCTACCTGCAAGTGAAGCTGTTTGAAGGGGAGCAACATGGAATCCCG 1500

Db 3461 CCGCAATGGGCTACCTGCAAGTGAAGCTGTTTGAAGGGGAGCAACATGGAATCCCG 3520
Qy 1501 A 1501
Db 3521 A 3521

RESULT 3
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIORITY APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 100.0%; Score 1501; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCTCAATACCTGATGGGAAATTTGAACCTGCACTCCGCTGACTGGAGAGAAATAG 60
Db 2248 AGCTCAATACCTGATGGGAAATTTGAACCTGCACTCCGCTGACTGGAGAGAAATAG 2407
Qy 61 ATGAGACCTTTGAAGAAGCTCCAGGAATTCAAGAGGCCACGATGAGCTGACCTCAAG 120
Db 2408 ATGAGACCTTTGAAGAAGCTCCAGGAATTCAAGAGGCCACGATGAGCTGACCTCAAG 2467
Qy 121 TGGCCAAAGCTGAGGTGATCAAGGATCTTGGAGCCCGTGGCGATCTCTCATTTGACT 180
Db 2468 TGGCCAAAGCTGAGGTGATCAAGGATCTTGGAGCCCGTGGCGATCTCTCATTTGACT 2527
Qy 181 CTCTCCAAAGTCACTTGAAGAAAGTCAAGGACCTTCCAGAGGAAATTTGGCTCTGAAG 240
Db 2528 CTCTCCAAAGTCACTTGAAGAAAGTCAAGGACCTTCCAGAGGAAATTTGGCTCTGAAG 2587
Qy 241 AGAAGTGAAGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGATTCAGCTCT 300
Db 2588 AGAAGTGAAGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGATTCAGCTCT 2647
Qy 301 CACCGTAACTCTGAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGCAAGTGG 360
Db 2648 CACCGTAACTCTGAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGCAAGTGG 2707
Qy 361 CCGTCAGAGACCGAGTCAAGGAGCTGATGAAGCCACAGGACCTTTGGTTCAGAGATTC 420
Db 2708 CCGTCAGAGACCGAGTCAAGGAGCTGATGAAGCCACAGGACCTTTGGTTCAGAGATTC 2767
Qy 421 AGCATTTCTTTCACAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCAACAAAG 480
Db 2768 AGCATTTCTTTCACAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCAACAAAG 2827
Qy 481 TGCCCTACTATATCAACAGAGACTCAACCACTTGTGGAGCATTCCAAAATGACAG 540
Db 2828 TGCCCTACTATATCAACAGAGACTCAACCACTTGTGGAGCATTCCAAAATGACAG 2887
Qy 541 AGCTCTACAGATCTTTAGCTGACCTGATATATGTCAGATTCTCAGCTTATAGACTGCA 600
Db 2888 AGCTCTACAGATCTTTAGCTGACCTGATATATGTCAGATTCTCAGCTTATAGACTGCA 2947
Qy 601 TGAATCTCCGAAAGCTGCAAGAGCCCTTTGCTTGGATCTCTTGAAGCTGTCAGCTGAT 660

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Db      2948  TGAACCTCCGAAGATGCGAAGGCGCTTGTGCTGATCTTGAAGCTGTGACCTGTGACCTCAT
Qy      661    GTGATGCTTGGACGACGACAACTCCAGCAAAATGACCAAGCCCATGATATCTGCGAGA
Db      3008  GTGATGCTTGGACGACGACAACTCCAGCAAAATGACCAAGCCCATGATATCTGCGAGA
Qy      721    TTATTAATTTGTTGACCACTATTATGACCGCTGAGCAAGACCAAAATTTGGTCA
Db      3068  TTATTAATTTGTTGACCACTATTATGACCGCTGAGCAAGACCAAAATTTGGTCA
Qy      781    ACGTCCCTCTGCTGCTGATATATGCTGAACTGCTGCTGAAATGTTATGATACGCGAC
Db      3128  ACGTCCCTCTGCTGCTGATATATGCTGAACTGCTGCTGAAATGTTATGATACGCGAC
Qy      841    GAACAGGAGAGATCCGTCCTGCTTTTAAACTGGCAATCTTCCCTGTTAAAGCAC
Db      3188  GAACAGGAGAGATCCGTCCTGCTTTTAAACTGGCAATCTTCCCTGTTAAAGCAC
Qy      901    ATTTGGAAGACAGTACAGTACCTTTTCAAGCAAGTGGCAAGTTCAAGATTTTGTG
Db      3248  ATTTGGAAGACAGTACAGTACCTTTTCAAGCAAGTGGCAAGTTCAAGATTTTGTG
Qy      961    ACCAGCGCAGGCTGAGGCTCTCTGCTGATGATTTCTATCCAAATTCGAACAGTTGGGTG
Db      3308  ACCAGCGCAGGCTGAGGCTCTCTGCTGATGATTTCTATCCAAATTCGAACAGTTGGGTG
Qy      1021  AACTTCATCTCTTTGGGGGAGTAACTATGAGCCAAAGTGTCCGAGCTGCTTCAATTTG
Db      3368  AAGTTCATCTCTTTGGGGGAGTAACTATGAGCCAAAGTGTCCGAGCTGCTTCAATTTG
Qy      1081  CTATATATAGCCAGAGATCGAAGCGGCTCTCTGCTGATGATGAGATGGAATGGAACCC
Db      3428  CTATATATAGCCAGAGATCGAAGCGGCTCTCTGCTGATGATGAGATGGAATGGAACCC
Qy      1141  AATCCATGCTGCTGCTGCTGCTGCTGCAAGAGTGTGCTGCAAGAACTGCCAAGCATC
Db      3488  AATCCATGCTGCTGCTGCTGCTGCTGCAAGAGTGTGCTGCAAGAACTGCCAAGCATC
Qy      1201  AGGCCAAATGTAACTATGCAAAAGAGTGTCCAAATCATTTGATTCAGAGTACAGAGTCTAA
Db      3548  AGGCCAAATGTAACTATGCAAAAGAGTGTCCAAATCATTTGATTCAGAGTACAGAGTCTAA
Qy      1261  AGCATTTAATTATGACATCTGCCAAAGCTCTTTTTCGTGCTGAGTGCAGAAAGGCC
Db      3608  AGCATTTAATTATGACATCTGCCAAAGCTCTTTTTCGTGCTGAGTGCAGAAAGGCC
Qy      1321  ATAAATGCACTATCCCATGCTGATATTTGCAATCCGATCACTCAAGAGATGTTG
Db      3668  ATAAATGCACTATCCCATGCTGATATTTGCAATCCGATCACTCAAGAGATGTTG
Qy      1381  GAGACTTTGCCAAGATCTAAACAAATTTGCAACCAAAAGATTTTGGAGAGATC
Db      3728  GAGACTTTGCCAAGATCTAAACAAATTTGCAACCAAAAGATTTTGGAGAGATC
Qy      1441  CCCGATGGGGTACTGCTGCAAGTGCAGATCTGTTAGAGGGGGAACAATGAAATCTCCG
Db      3788  CCCGATGGGGTACTGCTGCAAGTGCAGATCTGTTAGAGGGGGAACAATGAAATCTCCG
Qy      1501  A 1501
Db      3848  A 3848

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RESULT 4
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142

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; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match      100.0%; Score 1501; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1    AGGTCAATACAGATGAGGAAAAATTTGAACCTGCACTCCGCTGACTGCGACAGAAAAATAG
Db      2489  AGGTCAATACAGATGAGGAAAAATTTGAACCTGCACTCCGCTGACTGCGACAGAAAAATAG
Qy      61    ATGAGACCTTTGAAAGACTCCAGAAACTTCAAGAGGCAAGATGAGCTGAGCTGAGCTCAAGC
Db      2549  ATGAGACCTTTGAAAGACTCCAGAAACTTCAAGAGGCAAGATGAGCTGAGCTGAGCTCAAGC
Qy      121  TGCGCCAAAGCTGAGGATCAAGGATCTGCGACGCTGCGGCGATCTCTCATTTACT
Db      2609  TGCGCCAAAGCTGAGGATCAAGGATCTGCGACGCTGCGGCGATCTCTCATTTACT
Qy      181  CTCTCCAAAGTCACTCGAAGAAAGTCAAGGCACTTGAAGAAATTTGGGCTCTGAAAG
Db      2669  CTCTCCAAAGTCACTCGAAGAAAGTCAAGGCACTTGAAGAAATTTGGGCTCTGAAAG
Qy      241  AGAAGCTGAGCCACGTCATATGACTTGTCTGCGACCTTACCATTTGGGCAATTGAGCTCT
Db      2729  AGAAGCTGAGCCACGTCATATGACTTGTCTGCGACCTTACCATTTGGGCAATTGAGCTCT
Qy      301  CACCGTATTAACCTCGACACTCTGAAAGACTGAAACCAAGATGAAAGCTTGTGCAAGGTG
Db      2789  CACCGTATTAACCTCGACACTCTGAAAGACTGAAACCAAGATGAAAGCTTGTGCAAGGTG
Qy      361  CCGTGAAGACCGAGTCAAGGAGCTGCAATGAAGCCACAGGAGCTTGTGTCAGCATCTC
Db      2849  CCGTGAAGACCGAGTCAAGGAGCTGCAATGAAGCCACAGGAGCTTGTGTCAGCATCTC
Qy      421  AGCACTTTCTTCCAGCTGCTGCTGCAAGGCTCTGAGAGAGCCATCTCGCAACAAAG
Db      2909  AGCACTTTCTTCCAGCTGCTGCTGCAAGGCTCTGAGAGAGCCATCTCGCAACAAAG
Qy      481  TGCCCTATATATCAACCAAGACTCAACCACTTGTGAGACATCCCAAAATGACAG
Db      2969  TGCCCTATATATCAACCAAGACTCAACCACTTGTGAGACATCCCAAAATGACAG
Qy      541  AGCTTACCACTCTTTAGCTGCTGCAAGTATATGTCAGATTTCTGACTTATAGACTGCA
Db      3029  AGCTTACCACTCTTTAGCTGCTGCAAGTATATGTCAGATTTCTGACTTATAGACTGCA
Qy      601  TGAACCTCCGAAGCTGCAAGAGCCCTTTGCTTGAATCTCTTGAAGCTGTCAGCTGCA
Db      3089  TGAACCTCCGAAGCTGCAAGAGCCCTTTGCTTGAATCTCTTGAAGCTGTCAGCTGCA
Qy      661  GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCGAGA
Db      3149  GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCGAGA
Qy      721  TTATTAATTTGTTGACCACTATTATGACCGCTGAGCAAGACCAACATTTGGTCA
Db      3209  TTATTAATTTGTTGACCACTATTATGACCGCTGAGCAAGACCAACATTTGGTCA
Qy      781  ACGTCCCTCTGCTGCTGATATATGCTGAACTGCTGCTGAAATGTTATGATACGCGAC
Db      3269  ACGTCCCTCTGCTGCTGATATATGCTGAACTGCTGCTGAAATGTTATGATACGCGAC
Qy      841  GAACAGGAGAGATCCGTCCTGCTTTTAAACTGGCAATCTTCCCTGTTAAAGCAC

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Db	3329	GAACGGGAGGATCCGTGCTCTGCTTTTAAACCTGGATCATTTTCCTGTGTAAAGCAC	3388
QY	901	ATTGGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG	960
Db	3389	ATTGGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG	3448
QY	961	ACCAAGCGAAGCTGGGGCTCTCTTGTGCATGATTTCTATCCAAATTCGAAGACATTTGGGTG	1020
Db	3449	ACCAAGCGAAGCTGGGGCTCTCTTGTGCATGATTTCTATCCAAATTCGAAGACATTTGGGTG	3508
QY	1021	AAGTTGCATCCTTTGGGGGCAAGTACATTTGAGCCAAAGTCCGGAGCTCTCCAAATTTG	1080
Db	3509	AAGTTGCATCCTTTGGGGGCAAGTACATTTGAGCCAAAGTCCGGAGCTCTCTCCAAATTTG	3568
QY	1081	CTAATATATAGCCAGAGATCGAAGCGGCGCTCTTCTTGACTGTGATGACCTGGAAACCCC	1140
Db	3569	CTAATATATAGCCAGAGATCGAAGCGGCGCTCTTCTTGACTGTGATGACCTGGAAACCCC	3628
QY	1141	AGTCATGTGTGGCTGCTGCCGTCCTGTGCACAGATGGCTGTCTGCAGAACTGCCAAGCATC	1200
Db	3629	AGTCATGTGTGGCTGCTGCCGTCCTGTGCACAGATGGCTGTCTGCAGAACTGCCAAGCATC	3688
QY	1201	AGGCCAAATGTAAACATCTGCAGAAAGTGTCCAAATCATTTGATTTAGGTACAGAGTCTAA	1260
Db	3689	AGGCCAAATGTAAACATCTGCAGAAAGTGTCCAAATCATTTGATTTAGGTACAGAGTCTAA	3748
QY	1261	AGCATTTAATTAATGACATCTGCCAAGCTGTTTTTTCTGTGTGATTTGCAGAAAGGCC	1320
Db	3749	AGCATTTAATTAATGACATCTGCCAAGCTGTTTTTTCTGTGTGATTTGCAGAAAGGCC	3808
QY	1321	ATTAATATGCACTATCTCCATGTGTGAATTTGTGACTTCGCACTACATCAGAGAAAGTGTTC	1380
Db	3809	ATTAATATGCACTATCTCCATGTGTGAATTTGTGACTTCGCACTACATCAGAGAAAGTGTTC	3868
QY	1381	GAGACTTTGCCAAGGATCTAAATAAAACAATTTTCGAAACCAAAAGGATTTTTCGAAAGCATC	1440
Db	3869	GAGACTTTGCCAAGGATCTAAATAAAACAATTTTCGAAACCAAAAGGATTTTTCGAAAGCATC	3928
QY	1441	CCCGAATGGGCTACCTGCGCAAGTGCAGACTGTCTTAAAGGGGAGCAACAATGAAATCTCCG	1500
Db	3929	CCCGAATGGGCTACCTGCGCAAGTGCAGACTGTCTTAAAGGGGAGCAACAATGAAATCTCCG	3988
QY	1501	A 1501	
Db	3989	A 3989	

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RESULT 5
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

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Query Match	100.0%;	Score 1501;	DB 10;	Length 4183;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	AGGCTCAATPACGATGCGGAAAAATTGAACCTCGCATCCGCGACTGGCAGAGAAAAATAG	60
Db	2672	AGGCTCAATPACGATGCGGAAAAATTGAACCTCGCATCCGCGACTGGCAGAGAAAAATAG	2731
QY	61	ATGAGACCCCTTGAAGAAGCTCCAGGAACTTCAGAGGCGCAGATGACTGGAACCTCAAGC	120
Db	2732	ATGAGACCCCTTGAAGAAGCTCCAGGAACTTCAGAGGCGCAGATGACTGGAACCTCAAGC	2791
QY	121	TGGGCCAAGCTGAGGTGATCAAGGGATCTTGCGACGCCGTGGGCGATCTCTCATTTGACT	180
Db	2792	TGGCCCAAGCTGAGGTGATCAAGGGATCTTGCGACGCCGTGGGCGATCTCTCATTTGACT	2851
QY	181	CTCTCCAAAGATCACCCTGAGAAAGTCAAGGCACTTCGAGAGAGAAATTGGCCTCTGAAAG	240
Db	2852	CTCTCCAAAGATCACCCTGAGAAAGTCAAGGCACTTCGAGAGAGAAATTGGCCTCTGAAAG	2911
QY	241	AGAAAGTAGAGCAGTCGTAATGACTCTTGCGCCAGCTTACCACTTTGGGCAATTGACGCTC	300
Db	2912	AGAAAGTAGAGCAGTCGTAATGACTCTTGCGCCAGCTTACCACTTTGGGCAATTGACGCTC	2971
QY	301	CACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGAATGGAACCTTCTGCGAGTGG	360
Db	2972	CACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGAATGGAACCTTCTGCGAGTGG	3031
QY	361	CCGTCGAGGAGCCGAGTCAAGGCACTGCAATGAGCCCAAGGACTTTGGTCACGACTCTC	420
Db	3032	CCGTCGAGGAGCCGAGTCAAGGCACTGCAATGAGCCCAAGGACTTTGGTCACGACTCTC	3091
QY	421	AGCATTTCTTTTCCACGCTGTCCACGGGTCCCTGGGAGAGGCCACTGCGCCAAACAAG	480
Db	3092	AGCATTTCTTTTCCACGCTGTCCACGGGTCCCTGGGAGAGGCCACTGCGCCAAACAAG	3151
QY	481	TGCCCTTACTATATCAACACGAGACTCAAAACAATTGCTGGAGACATCCCAAAATGACAG	540
Db	3152	TGCCCTTACTATATCAACACGAGACTCAAAACAATTGCTGGAGACATCCCAAAATGACAG	3211
QY	541	AGCTCTACCAAGCTTTTACCTGACTGAAATATGTCAATTTCTCAGCTTATAGACTGCCA	600
Db	3212	AGCTCTACCAAGCTTTTACCTGACTGAAATATGTCAATTTCTCAGCTTATAGACTGCCA	3271
QY	601	TGAAACCTCCGAGAGCTGAGAGAGGCCCTTTGCTTGATCTCTTGAAGCTGACGCTGCAT	660
Db	3272	TGAAACCTCCGAGAGCTGAGAGAGGCCCTTTGCTTGATCTCTTGAAGCTGACGCTGCAT	3331
QY	661	GTGATGCTTGGACACAGACAACTTCAAGCAAAATGACAGGCCATGATATCTCTGAGA	720
Db	3332	GTGATGCTTGGACACAGACAACTTCAAGCAAAATGACAGGCCATGATATCTCTGAGA	3391
QY	721	TTATTTAATTTGTTGACCACTATTTATATGACCGCTCGAGCAAGACCAACAATTTGGTCA	780
Db	3392	TTATTTAATTTGTTGACCACTATTTATATGACCGCTCGAGCAAGACCAACAATTTGGTCA	3451
QY	781	ACGTCCTCTCTGCGTGATGATATGTGTCTGAACTGGCGCTGAAAGTTATATGATACGGGAC	840
Db	3452	ACGTCCTCTCTGCGTGATGATATGTGTCTGAACTGGCGCTGAAAGTTATATGATACGGGAC	3511
QY	841	GAAACAGGAGGATCCGTGCTCTTTTAAATGTGACATCAATTCCTGTGTAAACAC	900
Db	3512	GAAACAGGAGGATCCGTGCTCTTTTAAATGTGACATCAATTCCTGTGTAAACAC	3571
QY	901	ATTTGAAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTTGTG	960
Db	3572	ATTTGAAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTTGTG	3631
QY	961	ACCAAGCGCAGGCTGGGCTCTCTTGTGATGATTTCTATCCAAATTTCCAAAGACGTTGGGTG	1020
Db	3632	ACCAAGCGCAGGCTGGGCTCTCTTGTGATGATTTCTATCCAAATTTCCAAAGACGTTGGGTG	3691
QY	1021	AAGTTGATCATCTTTGGGGGAGTAACATTTAGCCAAATGTCCGGAGCTGCTCCAAATTTG	1080
Db	3692	AAGTTGATCATCTTTGGGGGAGTAACATTTAGCCAAATGTCCGGAGCTGCTCCAAATTTG	3751
QY	1081	CTAATTAATTAAGCCAGAGATCGAAGCGGCGCTCTTTCTTACACTGATAGACTGGAACCCC	1140

Db 3752 CTAATATATAACGACAGATCGAAGCGGCCCTCTTCCATGACTGAGACTGGAACCCC 3811
Qy 1141 AGTCGATGCTGCTGCGCCCTGCTGCAAGATGCTGCTGCAAGAACTGCCAAGCATC 1200
Db 3812 AGTCGATGCTGCTGCGCCCTGCTGCAAGATGCTGCTGCAAGAACTGCCAAGCATC 3871
Qy 1201 AGGCAATGTAACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Db 3872 AGGCCAAATGTACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Qy 1261 AGCACTTAAATATGACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Db 3932 AGCACTTAAATATGACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Qy 1321 ATAAATGACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Db 3992 ATAAATGACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Qy 1381 GAGACTTGTCCCAAGGTAATCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Db 4052 GAGACTTGTCCCAAGGTAATCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Qy 1441 CCCGATGCGCTACCTGCGCAAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Db 4112 CCCGATGCGCTACCTGCGCAAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Qy 1501 A 1501
Db 4172 A 4172

RESULT 6

US-09-845-416-31
; Sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-31

Query Match 100.0%; Score 1501; DB 10; Length 4476;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGCAATGTAACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Db 2756 AGGCAATGTAACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Qy 61 ATGAGACCTTTGAAGAAGCTCCAGGAAGCTTCAAGAGGCAAGATGAGCTGCAAGCTTAA 120
Db 2816 ATGAGACCTTTGAAGAAGCTCCAGGAAGCTTCAAGAGGCAAGATGAGCTGCAAGCTTAA 120
Qy 121 TGGGCCAAGTGTGAGTGTCAAGAGTGTCAAGAGGCAAGATGAGCTGCAAGCTTAA 120
Db 2876 TGGGCCAAGTGTGAGTGTCAAGAGTGTCAAGAGGCAAGATGAGCTGCAAGCTTAA 120
Qy 181 CTCCTCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCCTCTGAAG 240
Db 2936 CTCCTCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCCCTCTGAAG 240

Qy 241 AGAAGTGAAGCCAGCTCAATGACCTTGTCCGCAAGCTTACCACTTTGGGCAATTGAGCTT 300
Db 2996 AGAAGTGAAGCCAGCTCAATGACCTTGTCCGCAAGCTTACCACTTTGGGCAATTGAGCTT 305
Qy 301 CACCGTAAATCTGAGCACTTGTGAAGACCTGAAACCAAGATGGAAGCTTGTGAGGTG 360
Db 3056 CACCGTAAATCTGAGCACTTGTGAAGACCTGAAACCAAGATGGAAGCTTGTGAGGTG 360
Qy 361 CCGTGAAGACCGAGTCAAGGAGCTGCAAGGAGCCCAAGGCACTTTGGTCCAGCATCTC 420
Db 3116 CCGTGAAGACCGAGTCAAGGAGCTGCAAGGAGCCCAAGGCACTTTGGTCCAGCATCTC 420
Qy 421 AGCACTTCTTTTCAAGCTGTCTGCAAGGAGCTTGTGAAGAGGAGCCATCTGCAAGAG 480
Db 3176 AGCACTTCTTTTCAAGCTGTCTGCAAGGAGCTTGTGAAGAGGAGCCATCTGCAAGAG 480
Qy 481 TGCCCTAATATCAACGAGAGCTGAACCACTTGTGAGGAGCCATCTGCAAGAG 540
Db 3236 TGCCCTAATATCAACGAGAGCTGAACCACTTGTGAGGAGCCATCTGCAAGAG 540
Qy 541 AGCTTCAACAGCTTTTGAAGCTGCAAGGAGCTTGTGAAGAGGAGCCATCTGCAAGAG 600
Db 3296 AGCTTCAACAGCTTTTGAAGCTGCAAGGAGCTTGTGAAGAGGAGCCATCTGCAAGAG 600
Qy 601 TGAACCTCGAAGACGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
Db 3356 TGAACCTCGAAGACGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
Qy 661 GTGATGCTTGAAGCAAGCAACCTCAAGCAATGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
Db 3416 GTGATGCTTGAAGCAAGCAACCTCAAGCAATGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
Qy 721 TTAATTAATGTTGACCACTTATTAAGCCGCTGGAAGAGCAACCAATTTGGTCA 780
Db 3476 TTAATTAATGTTGACCACTTATTAAGCCGCTGGAAGAGGAGGAGGAGGAGGAGGAGGAG 780
Qy 781 AGCTCCCTCTGCGTGAATGATGCTGAAGCTGCTGAATGTTTGAATGATGAGGAGGAG 840
Db 3536 AGCTCCCTCTGCGTGAATGATGCTGAAGCTGCTGAATGTTTGAATGATGAGGAGGAG 840
Qy 841 GAAAGGAGAGATCGGTGCTGCTGCTTTTAAAGCTGATCAATTTCCGTGTAAGGAG 900
Db 3596 GAAAGGAGAGATCGGTGCTGCTGCTTTTAAAGCTGATCAATTTCCGTGTAAGGAG 900
Qy 901 ATTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTG 960
Db 3656 ATTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTG 960
Qy 961 ACCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
Db 3716 ACCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
Qy 1021 AAGTGGCAATCTTTTGGGAGGAGTAACTTTGAGCCAGGAGTGTGAGGAGGAGGAGGAG 1080
Db 3776 AAGTGGCAATCTTTTGGGAGGAGTAACTTTGAGCCAGGAGTGTGAGGAGGAGGAGGAG 1080
Qy 1081 CTAAATTAAGCCAGAGATCGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
Db 3836 CTAAATTAAGCCAGAGATCGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
Qy 1141 AGTCAATGATGAGTGTGCGGCTCTGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200
Db 3896 AGTCAATGATGAGTGTGCGGCTCTGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200
Qy 1201 AGGCAATGTAACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Db 3956 AGGCAATGTAACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1260
Qy 1261 AGCACTTAAATATGACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1320
Db 4016 AGCACTTAAATATGACATCTGCAAGAGTGTCAATCAATTGGAATCAGGTACAGAGCTTAA 1320
Qy 1321 ATAAATGCACTATCCATGATGTAATTTGCACTCCGACTACATCAAGAGAGATGTTTC 1380

Db	4076	ATAAATGCACTATCCCATGGTGGAAATTGCACTCCGACTRCACTAGAGAAATGTTCC	4135
Qy	1391	GAGACTTTGCCAAGGTAATAAAAACAAATTTGGAACCAAAAGTATTTTGCAGAGCATC	1440
Db	4136	GAGACTTTGCCAAGGTAATAAAAACAAATTTGGAACCAAAAGTATTTTGCAGAGCATC	4195
Qy	1441	CCCCGAATGGGCTACTCTGCGCAGTGCAGACTGTCTTTAGAGGGGAGCAACTGMAAACTCCCG	1500
Db	4196	CCCGAATGGGCTACTCTGCGCAGTGCAGACTGTCTTTAGAGGGGAGCAACTGMAAACTCCCG	4255
Qy	1501	A 1501	
Db	4256	A 4256	
RESULT 7			
US-09-845-416-30			
; Sequence 30, Application US/09845416			
; Publication No. US20030171312A1			
; GENERAL INFORMATION:			
; APPLICANT: XIAO, XIAO			
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE			
; TITLE OF INVENTION: THEREOF			
; FILE REFERENCE: DE1142			
; CURRENT APPLICATION NUMBER: US/09/845,416			
; CURRENT FILING DATE: 2001-04-30			
; PRIOR APPLICATION NUMBER: 60/200,777			
; PRIOR FILING DATE: 2000-04-28			
; NUMBER OF SEQ ID NOS: 36			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO: 30			
; LENGTH: 4498			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-09-845-416-30			
Query Match			
Beet Local Similarity 100.0%; Score 1501; DB 10; Length 4498;			
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1	AGGTCAATACTGAGTGGGAAAAATTGAACTTGCACTCCGCTGACTGGCAGAAAAATAG 60	
Db	2778	AGGTCAATACTGAGTGGGAAAAATTGAACTTGCACTCCGCTGACTGGCAGAAAAATAG 2837	
Qy	61	ATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGATGACTGCAAGC 120	
Db	2838	ATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGATGACTGCAAGC 2897	
Qy	121	TGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCGATTGACT 180	
Db	2898	TGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCTCATTTGACT 2957	
Qy	181	CTCTCCAGATCACTCGAGAAAGTCAAGGCACTTGAAGAGAAATTCGCTCTGAAG 240	
Db	2958	CTCTCCAGATCACTCGAGAAAGTCAAGGCACTTGAAGAGAAATTCGCTCTGAAG 3017	
Qy	241	AGAACTGAGCCACGTCAATGACTTTGCTCGCAGCTTACCACTTTGGCATTCAGCTCT 300	
Db	3018	AGAACTGAGCCACGTCAATGACTTTGCTCGCAGCTTACCACTTTGGCATTCAGCTCT 3077	
Qy	301	CACCGATAAAGCTCGACACTTGAAGAACCTGAACACCGAGATGAAGACTTTCGACGTGG 360	
Db	3078	CACCGATAAAGCTCGACACTTGAAGAACCTGAACACCGAGATGAAGACTTTCGACGTGG 3137	
Qy	361	CCGTGAGGACCGAGTCAAGCAAGCTGCAATGAAGCCCAAGGGACTTTGGTCCAGATTC 420	
Db	3138	CCGTGAGGACCGAGTCAAGCAAGCTGCAATGAAGCCCAAGGGACTTTGGTCCAGATTC 3197	
Qy	421	AGCACTTTTTCACAGTCTGTCCACAGGGTCCCTGGAGAGAGCCATTCGCCAAACAAG 480	
Db	3198	AGCACTTTTTCACAGTCTGTCCACAGGGTCCCTGGAGAGAGCCATTCGCCAAACAAG 3257	

OY	48	TGCCCTCTATATCAACCAAGAGCTCAAAACAATTGCTGGACATCCCAAAATGACAG	540
Db	3258	TGCGCTTACTATATACCAAGAGACTCAAAACAATTGCTGGACATCCCAAAATGACAG	3317
OY	541	AGCTCTACCAAGCTTTTAGCTGACCTGAAATATATGTCAGATTTCTCAGCTTATAGACCTGCCA	600
Db	3318	AGCTCTACCAAGCTTTTAGCTGACCTGAAATATATGTCAGATTTCTCAGCTTATAGACCTGCCA	3377
OY	601	TGAAATCCCGAAGACTGACAAAGGCCCTTTGGCTTGATCTCTTGAGCGCTGTGACGTGCAT	660
Db	3378	TGAAATCCCGAAGACTGACAAAGGCCCTTTGGCTTGATCTCTTGAGCGCTGTGACGTGCAT	3437
OY	661	GTGATGCTTGAGACACAGACAACCTCAAGCAAAATGACACGCCCATGATATATCTCGAGA	720
Db	3438	GTGATGCTTGAGACACAGACAACCTCAAGCAAAATGACACGCCCATGATATATCTCGAGA	3497
OY	721	TTATTAATTTGTGGACCACTATTATTATGACCGCTGAGCAAGACACACAATTTGGTCA	780
Db	3498	TTATTAATTTGTGGACCACTATTATTATGACCGCTGAGCAAGACACACAATTTGGTCA	3557
OY	781	ACGTCCTCTCTGGTGGGATATATGTGCTGAACTGGCTGCTGAATGTTATAGATACGGGAC	840
Db	3558	ACGTCCTCTCTGGTGGGATATATGTGCTGAACTGGCTGCTGAATGTTATAGATACGGGAC	3617
OY	841	GAACAGGAGGAGATCCGTGCTCTGCTTTTAAATCTGACATCATTTCCCTGTGTAAGAC	900
Db	3618	GAACAGGAGGAGATCCGTGCTCTGCTTTTAAATCTGACATCATTTCCCTGTGTAAGAC	3677
OY	901	ATTTTGAAGAACAAGTACAGATACCTTTTCAAGCAGTGGCAAGTTTCAACAGATTTTGTG	960
Db	3678	ATTTTGAAGAACAAGTACAGATACCTTTTCAAGCAGTGGCAAGTTTCAACAGATTTTGTG	3737
OY	961	ACCAAGCCAGGCGTGGGCTCCTCTGTGATGATTTCTATCCAAATTCCAAGACAGTGGGCTG	1020
Db	3738	ACCAAGCCAGGCGTGGGCTCCTCTGTGATGATTTCTATCCAAATTCCAAGACAGTGGGCTG	3797
OY	1021	AAGTTGCATCCTTTGGGGGAGTAACTTGAAGCCAAAGTGTCCGGAAGCTGCTTCCAAATTTG	1080
Db	3798	AAGTTGCATCCTTTGGGGGAGTAACTTGAAGCCAAAGTGTCCGGAAGCTGCTTCCAAATTTG	3857
OY	1081	CTAATTAATTAAGCAGAGATGGAAGCGGCGCTCTTCTTGAAGTGGATGACCTGGAACCCC	1140
Db	3858	CTAATTAATTAAGCAGAGATGGAAGCGGCGCTCTTCTTGAAGTGGATGACCTGGAACCCC	3917
OY	1141	AGTCCATGATGTGGCTGCCCGCTCCTGTGACAGAGTGGCTGTCGACAGAACTGCCAAGCATC	1200
Db	3918	AGTCCATGATGTGGCTGCCCGCTCCTGTGACAGAGTGGCTGTCGACAGAACTGCCAAGCATC	3977
OY	1201	AGGCAAAATGTAACATCTGCAAAAGAGTGTCCAATTCATTTGATTCAAGGTACAGAGATCTAA	1260
Db	3978	AGGCAAAATGTAACATCTGCAAAAGAGTGTCCAATTCATTTGATTCAAGGTACAGAGATCTAA	4037
OY	1261	AGCACTTTAATTAATGACATCTGCCAAAGCTGCTTTTTTTCTGCTCGAGTTCGCAAAAGGCC	1320
Db	4038	AGCACTTTAATTAATGACATCTGCCAAAGCTGCTTTTTTTCTGCTCGAGTTCGCAAAAGGCC	4097
OY	1321	ATTAATAATGCACTATCCCATGSTGGAATATTGCACTCCGACTACATCAGAGAAAGATTTTC	1380
Db	4098	ATTAATAATGCACTATCCCATGSTGGAATATTGCACTCCGACTACATCAGAGAAAGATTTTC	4157
OY	1381	GAGACTTTGGCAAGGTACTAAAAAAACAATTTGGAACCAAAAGGTATTTTTCGAAAGCATC	1440
Db	4158	GAGACTTTGGCAAGGTACTAAAAAAACAATTTGGAACCAAAAGGTATTTTTCGAAAGCATC	4217
OY	1441	CCCGAATGGGGTACCTGTCCAGTGTGACATCTTTTGAAGGGGGCAACAATGAAATCTCCG	1500
Db	4218	CCCGAATGGGGTACCTGTCCAGTGTGACATCTTTTGAAGGGGGCAACAATGAAATCTCCG	4277
OY	1501	A 1501	
Db	4278	A 4278	

RESULT 8
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1501; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 AGGTCATTACTGAGTGGGAAAATTGAACTGCACTCCGCTGATGCGAGAGAAAATAG 60
DB 3105 AGGTCATTACTGAGTGGGAAAATTGAACTGCACTCCGCTGATGCGAGAGAAAATAG 3164
QY 61 ATGAGACCTTTGAAAAGACTTCAGAGAACTTCAAGAGGCCAGGATGAGCTGGACCTCAAGC 120
DB 3165 ATGAGACCTTTGAAAAGACTTCAGAGAACTTCAAGAGGCCAGGATGAGCTGGACCTCAAGC 3224
QY 121 TGGGCAAGGTGAGTGAATCAAGGATCTTGCGAGCCGCTGGCGATCTCTCATTTGACT 180
DB 3225 TGGGCAAGGTGAGTGAATCAAGGATCTTGCGAGCCGCTGGCGATCTCTCATTTGACT 3284
QY 181 CTCTCCAGATCACTTCAGAAAGTCAAGAGCACTTCAAGAGAAATTCGCGCTCTGAAAG 240
DB 3285 CTCTCCAGATCACTTCAGAAAGTCAAGAGCACTTCAAGAGAAATTCGCGCTCTGAAAG 3344
QY 241 AAGAGGTGAGCAAGTCAATGACTTTGCTCGCAGCTTACCACTTTGGGCAATTCAGCTCT 300
DB 3345 AAGAGGTGAGCAAGTCAATGACTTTGCTCGCAGCTTACCACTTTGGGCAATTCAGCTCT 3404
QY 301 CACCGTATTAAGCTTCAGCACTTCGAAAGACTGAAACACCAAGATGGAAGTTTCAGAGTGG 360
DB 3405 CACCGTATTAAGCTTCAGCACTTCGAAAGACTGAAACACCAAGATGGAAGTTTCAGAGTGG 3464
QY 361 CCGTGAAGAGCCGAGTCAAGCAAGTGCATGAAGCCCAAGGAACTTTGGTCAAGCATCTC 420
DB 3465 CCGTGAAGAGCCGAGTCAAGCAAGTGCATGAAGCCCAAGGAACTTTGGTCAAGCATCTC 3524
QY 421 AGCACTTCTTTCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATTCGCCAAACAAAG 480
DB 3525 AGCACTTCTTTCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATTCGCCAAACAAAG 3584
QY 481 TGCCTTACTATATTAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAG 540
DB 3585 TGCCTTACTATATTAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAG 3644
QY 541 AGCTCTACCAAGTCTTTAGCTGCACTGAAATATATGATGAGATTTCAGCTTTAAGGATGCCA 600
DB 3645 AGCTCTACCAAGTCTTTAGCTGCACTGAAATATATGATGAGATTTCAGCTTTAAGGATGCCA 3704
QY 601 TGAATCTCGAAGACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCCGTGACGTGCAT 660
DB 3705 TGAATCTCGAAGACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCCGTGACGTGCAT 3764
QY 661 GTGATGCTTGGACCAAGCAAACTTCAAGCAAAATGACAGCCCATGATATCTTGACAG 720
DB 3765 GTGATGCTTGGACCAAGCAAACTTCAAGCAAAATGACAGCCCATGATATCTTGACAG 3824
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QY 721 TTATTATGTTTGAACCACTATTATGACCGGCTGGAGCAAGACAACTTTGCTCA 780
DB 3825 TTATTATGTTTGAACCACTATTATGACCGGCTGGAGCAAGACAACTTTGCTCA 3884
QY 781 AGTCCCTCTCTGCGCTGATATGCTGTAAGCTGCTGCTGAATGTTATGATACGGGAC 840
DB 3885 AGTCCCTCTCTGCGCTGATATGCTGTAAGCTGCTGCTGAATGTTATGATACGGGAC 3944
QY 841 GAACAGGAGAGATCCGCTGCTTTAAACTGGCATATTTCCCTGTGTAAACAC 900
DB 3945 GAACAGGAGAGATCCGCTGCTTTAAACTGGCATATTTCCCTGTGTAAACAC 4004
QY 901 ATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTGTG 960
DB 4005 ATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTGTG 4064
QY 961 ACCAGCGAGGCTGGGCTCCTCTGATATGATTCCTCAAAATTCAGACAGTTGGGTG 1020
DB 4065 ACCAGCGAGGCTGGGCTCCTCTGATATGATTCCTCAAAATTCAGACAGTTGGGTG 4124
QY 1021 AAGTTGATCTTTTGGGGGAGTAACATTTGAGGCAAGTCCGAGAGCTGTTCCAAATTTG 1080
DB 4125 AAGTTGATCTTTTGGGGGAGTAACATTTGAGGCAAGTCCGAGAGCTGTTCCAAATTTG 4184
QY 1081 CTATATTAAGCCAGAGATGGAAGCGGCTCTTCTTAAGCTGATGAGACTGGAACCCC 1140
DB 4185 CTATATTAAGCCAGAGATGGAAGCGGCTCTTCTTAAGCTGATGAGACTGGAACCCC 4244
QY 1141 AGTCCATGTTGTGGCTGCCGCTCTGCAAGAGTGGCTGTCAGAAATTCGCAAGCATC 1200
DB 4245 AGTCCATGTTGTGGCTGCCGCTCTGCAAGAGTGGCTGTCAGAAATTCGCAAGCATC 4304
QY 1201 AGGCAAAATGTAACATCTGCAAAAGTGTCCAAATGATGATTCAGTAACAGAGCTTAA 1260
DB 4305 AGGCAAAATGTAACATCTGCAAAAGTGTCCAAATGATGATTCAGTAACAGAGCTTAA 4364
QY 1261 AGCACTTATATGATCATCTGCAAGGCTTTTCTTGTGTGATGTTGAAAGGCC 1320
DB 4365 AGCACTTATATGATCATCTGCAAGGCTTTTCTTGTGTGATGTTGAAAGGCC 4424
QY 1321 ATTAATGATCATCTGCAAGGCTTTTCTTGTGTGATGTTGAAAGGCC 1380
DB 4425 ATTAATGATCATCTGCAAGGCTTTTCTTGTGTGATGTTGAAAGGCC 4484
QY 1381 GAGACTTGGCCAAAGTCAAAATTCGAAACCAAAAGTATTTTCCGAAGCATC 1440
DB 4485 GAGACTTGGCCAAAGTCAAAATTCGAAACCAAAAGTATTTTCCGAAGCATC 4544
QY 1441 CCGAATGGGCTACTGCTGCAAGTCAAGCTGTCTTGAAGGGGGAACAATGGAATCCCG 1500
DB 4545 CCGAATGGGCTACTGCTGCAAGTCAAGCTGTCTTGAAGGGGGAACAATGGAATCCCG 4604
QY 1501 A 1501
DB 4605 A 4605
```

RESULT 9
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35

LENGTH: 4848
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 100.0%; Score 1501; DB 10; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 AGGTCAATACGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
DB AGTCAATACGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 3187
OY 61 ATGAGACCCCTGAAAGACTCCAGAACTTCAAGAGCCACGGATGAGCTGCACTCAAGC 120
DB ATGAGACCCCTGAAAGACTCCAGAACTTCAAGAGCCACGGATGAGCTGCACTCAAGC 3247
OY 121 TCGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 180
DB TCGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCTCATTTGACT 3248
OY 181 CTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATGGCGCTTGAAAG 240
DB CTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATGGCGCTTGAAAG 3308
OY 241 AGAAGTGAAGCAAGTCAATGACCTTGGCTGGCAGCTTACCACTTGGGCACTTCAAGCT 300
DB AGAAGTGAAGCAAGTCAATGACCTTGGCTGGCAGCTTACCACTTGGGCACTTCAAGCT 3368
OY 301 CACCGTATACCTCTAGCACTCTGGAAGACCTGACACCAAGATGAGAGCTTCTGCAAGTGG 360
DB CACCGTATACCTCTAGCACTCTGGAAGACCTGACACCAAGATGAGAGCTTCTGCAAGTGG 3428
OY 361 CCGTGAAGACCGAGTCAAGGCACTGATGAAGCCCAAGGCACTTGGTCCAGCATCTC 420
DB CCGTGAAGACCGAGTCAAGGCACTGATGAAGCCCAAGGCACTTGGTCCAGCATCTC 3488
OY 421 AGCACTTCTTCCAGCTGTCAGAGGCTCCCTGGAGAGAGCACTTCCGCAACCAAG 480
DB AGCACTTCTTCCAGCTGTCAGAGGCTCCCTGGAGAGAGCACTTCCGCAACCAAG 3548
OY 481 TGGCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAG 540
DB TGGCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAG 3608
OY 541 AGCTTACCAAGCTTTAGCTGACCTGAATATGTCAAGATTCTCACTTATGAGACTGCCA 600
DB AGCTTACCAAGCTTTAGCTGACCTGAATATGTCAAGATTCTCACTTATGAGACTGCCA 3668
OY 601 TGAACCTCCGAAGACTGCAAGAGGCCCTTGGTGGATCTCTTGAAGCCCTGACCTGCACT 660
DB TGAACCTCCGAAGACTGCAAGAGGCCCTTGGTGGATCTCTTGAAGCCCTGACCTGCACT 3728
OY 661 GTGATGCTTGGACCAAGCACTCAAGCAAAATGACAGCCCATGATATCTGACAGA 720
DB GTGATGCTTGGACCAAGCACTCAAGCAAAATGACAGCCCATGATATCTGACAGA 3788
OY 721 TTATTAAATTGTTGAACCACTATTATGACCGCTGGAGCAAGCAAAATTTGGTCA 780
DB TTATTAAATTGTTGAACCACTATTATGACCGCTGGAGCAAGCAAAATTTGGTCA 3848
OY 781 AGTCCCTCTCTGCGTGGATATGTGTCTGAACCTGGTGTGAATTTTATGATAGGGAG 840
DB AGTCCCTCTCTGCGTGGATATGTGTCTGAACCTGGTGTGAATTTTATGATAGGGAG 3908
OY 841 GAACAGGAGAGATCGGTCTGTCTTTTAAACTGGCATCTTCCCTGTGAAAGCAC 900
DB GAACAGGAGAGATCGGTCTGTCTTTTAAACTGGCATCTTCCCTGTGAAAGCAC 3968
OY 901 ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTGTG 960
DB ATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTGTG 4028
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OY 961 ACCAGCGAGGCTGGGCTCTCTTCTGATGATTTCTATCAAAATTCAGAGAGTTGGGTG 1020
DB ACCAGCGAGGCTGGGCTCTCTTCTGATGATTTCTATCAAAATTCAGAGAGTTGGGTG 4088
OY 1021 AAGTTGCATCTTTGGGGGCGATTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 1080
DB AAGTTGCATCTTTGGGGGCGATTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 4148
OY 1081 CTAATATATAGCGAGAGATCGAAGGGGCGCTTCTCTGACTGATGAGACTGGAACCC 1140
DB CTAATATATAGCGAGAGATCGAAGGGGCGCTTCTCTGACTGATGAGACTGGAACCC 4208
OY 1141 AGTCATGATGTGGTGGCTGCGCTCTGCAAGAGTGGCTGTCAGAAACTGCCAAGCATC 1200
DB AGTCATGATGTGGTGGCTGCGCTCTGCAAGAGTGGCTGTCAGAAACTGCCAAGCATC 4268
OY 1201 AGGCCAAATGTAACTCTGCAAGAGTGTCCATATTTGATTCAGGTACAGAGATCTTAA 1260
DB AGGCCAAATGTAACTCTGCAAGAGTGTCCATATTTGATTCAGGTACAGAGATCTTAA 4328
OY 1261 AGCACTTATATATGACATCTGCCAAAGCTGTTTTTCTGGTGAAGTGGCAAAAGGCC 1320
DB AGCACTTATATATGACATCTGCCAAAGCTGTTTTTCTGGTGAAGTGGCAAAAGGCC 4388
OY 1321 ATAAATGCACTATCCATGATGATATGCACTCCGACTACATCAGAGAGAGATGTTT 1380
DB ATAAATGCACTATCCATGATGATATGCACTCCGACTACATCAGAGAGAGATGTTT 4448
OY 1381 GAGACTTGGCAAGTACTTAAACCAAAATTTGAAACCAAAAGTATTTTGGCAAGCATC 1440
DB GAGACTTGGCAAGTACTTAAACCAAAATTTGAAACCAAAAGTATTTTGGCAAGCATC 4508
OY 1441 CCGGAATGGGCTACCTGCGACGAGCATGCTTGAAGGGGGCAAACTGGAATCCCG 1500
DB CCGGAATGGGCTACCTGCGACGAGCATGCTTGAAGGGGGCAAACTGGAATCCCG 4568
OY 1501 A 1501
DB 4628 A 4628
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RESULT 10
US-09-845-416-28
Sequence 28, Application US/09845416
Publication No. US2003017312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: DE1142
CURRENT APPLICATION NUMBER: US/09/845,416
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 28
LENGTH: 4966
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1501; DB 10; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 AGGTCAATACGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
DB AGTCAATACGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 3246
OY 61 ATGAGACCCCTGAAAGACTCCAGAACTTCAAGAGCCACGGATGAGCTGCACTCAAGC 120
DB ATGAGACCCCTGAAAGACTCCAGAACTTCAAGAGCCACGGATGAGCTGCACTCAAGC 3306
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QY 121 TCGCCAAAGCTGAGTGAATCAAGGATCTCTGACACCCCTGGCGATCTCTCAATGACT 180
DB 3366 TCGCCAAAGCTGAGTGAATCAAGGATCTCTGACACCCCTGGCGATCTCTCAATGACT 3425
QY 181 CTCTCCAAAGATCACTTGAGAAAGTCAAGGACTCTGAGAGAAATGGCTCTGAAAG 240
DB 3426 CTCTCCAAAGATCACTTGAGAAAGTCAAGGACTCTGAGAGAAATGGCTCTGAAAG 3485
QY 241 AGAAGTGAAGCAAGTCAATGACCTTGTGCTGACCTTACCACTTTGCGCAATTCAGCTCT 300
DB 3486 AGAAGTGAAGCAAGTCAATGACCTTGTGCTGACCTTACCACTTTGCGCAATTCAGCTCT 3545
QY 301 CACCGTAACTCTGAGCACTCTGAGAGACTGAAACCAAGATGGAAGCTCTGAGAGTGG 360
DB 3546 CACCGTAACTCTGAGCACTCTGAGAGACTGAAACCAAGATGGAAGCTCTGAGAGTGG 3605
QY 361 CCGTGAAGAGCCGAGTCAAGGAGTCAATGAAGCCCAAGGACTTTGATCCAGCAATCTC 420
DB 3606 CCGTGAAGAGCCGAGTCAAGGAGTCAATGAAGCCCAAGGACTTTGATCCAGCAATCTC 3665
QY 421 AGCACTTTCTTTCCAGCTGTCTGCAAGGAGTCTGGAGAGAGGCAATCTGCGCAAAAG 480
DB 3666 AGCACTTTCTTTCCAGCTGTCTGCAAGGAGTCTGGAGAGAGGCAATCTGCGCAAAAG 3725
QY 481 TGCCTTAATTAATCAACAGAGACTTAAACAACTTGAGGACCAATCCCAAAATGACAG 540
DB 3726 TGCCTTAATTAATCAACAGAGACTTAAACAACTTGAGGACCAATCCCAAAATGACAG 3785
QY 541 AGCTTAACAGCTTTAGTGAAGCTGAAATTAATGATTCAGATTTAAGACTGCA 600
DB 3786 AGCTTAACAGCTTTAGTGAAGCTGAAATTAATGATTCAGATTTAAGACTGCA 3845
QY 601 TGAACCTCGAAGACCTGAGAGAGGCTTTGCTGATCTCTGAGCTGAGCTGAGT 660
DB 3846 TGAACCTCGAAGACCTGAGAGAGGCTTTGCTGATCTCTGAGCTGAGCTGAGT 3905
QY 661 GTGATGCTTTGAGCAAGCAAACTCAAGCAAAATGACAGCCCAAGATTCCTGCA 720
DB 3906 GTGATGCTTTGAGCAAGCAAACTCAAGCAAAATGACAGCCCAAGATTCCTGCA 3965
QY 721 TTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGAGCAAACTTTGCTCA 780
DB 3966 TTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGAGCAAACTTTGCTCA 4025
QY 781 AGCTCCCTCTCTGCTGATATGTTGACAGCTGCTGCAATGTTATATGCGAC 840
DB 4026 AGCTCCCTCTCTGCTGATATGTTGACAGCTGCTGCAATGTTATATGCGAC 4085
QY 841 GAAAGGAGAGATCCGTCTCTGTTTAAACTGAGATCAATTCCTGTTAAAGCAC 900
DB 4086 GAAAGGAGAGATCCGTCTCTGTTTAAACTGAGATCAATTCCTGTTAAAGCAC 4145
QY 901 ATTTGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCACAGATTTGTTG 960
DB 4146 ATTTGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCACAGATTTGTTG 4205
QY 961 ACCAGCGAGGCTGAGCTCTCTTCTGATGATTTCAAAATTCAGCAAGTGGGTTG 1020
DB 4206 ACCAGCGAGGCTGAGCTCTCTTCTGATGATTTCAAAATTCAGCAAGTGGGTTG 4265
QY 1021 AAGTTGATCTTTGGGGGAGTAACTGAGGCAAGTGTCCGAGCTGTTCAATTTG 1080
DB 4266 AAGTTGATCTTTGGGGGAGTAACTGAGGCAAGTGTCCGAGCTGTTCAATTTG 4325
QY 1081 CTAAATTAATTAAGAGATGAAGCGGCTCTTCTCAAGCTGAGTGAAGTGAAGCCCC 1140
DB 4326 CTAAATTAATTAAGAGATGAAGCGGCTCTTCTCAAGCTGAGTGAAGTGAAGCCCC 4385
QY 1141 AGTCAATGAGTGGCTGCGCTCTCTGCAAGAGTGGCTGCAAGAACTGCAAGCAATC 1200
DB 4386 AGTCAATGAGTGGCTGCGCTCTCTGCAAGAGTGGCTGCAAGAACTGCAAGCAATC 4445

QY 1201 AGGCCAAATGTAACATCTGCAAAAGAGTCTCCATATATTGATTCAGATGAGAGTCTAA 1260
DB 4446 AGGCCAAATGTAACATCTGCAAAAGAGTCTCCATATATTGATTCAGATGAGAGTCTAA 4505
QY 1261 AGCACTTTAATTAATGACATCTGCCAAAGCTGCTTTTCTGAGTGGAGTTCAGAAAGCC 1320
DB 4506 AGCACTTTAATTAATGACATCTGCCAAAGCTGCTTTTCTGAGTGGAGTTCAGAAAGCC 4565
QY 1321 ATAAATGACATATCCCATGTTGGAATTTGCACTCCGATCAATCAAGAGAGATGTC 1380
DB 4566 ATAAATGACATATCCCATGTTGGAATTTGCACTCCGATCAATCAAGAGAGATGTC 4625
QY 1381 GAGACTTGGCCAAAGTACTAAACAAATTTGCAACCAAAAGTATTTTGGCAAGATC 1440
DB 4626 GAGACTTGGCCAAAGTACTAAACAAATTTGCAACCAAAAGTATTTTGGCAAGATC 4685
QY 1441 CCCGAATGGGTACTCTGCAAGTGAAGCTGCTTTAGAGGGGAGCAACATGAGAACTCCG 1500
DB 4686 CCCGAATGGGTACTCTGCAAGTGAAGCTGCTTTAGAGGGGAGCAACATGAGAACTCCG 4745
QY 1501 A 1501
DB 4746 A 4746

RESULT 11

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1501; DB 10; Length 4990;
Best Local Similarity 100.0%; Pident. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGTCAATTAAGTGAAGTGAAGAAATTTGAACCTGCACTCCGCTGATGCTGGCAAGAAATAG 60
DB 3270 AGTCAATTAAGTGAAGTGAAGAAATTTGAACCTGCACTCCGCTGATGCTGGCAAGAAATAG 3329
QY 61 ATGAGACCTTTGAAAGATCTCAGGAATCTCAAGAGGCAAGATGAGTGAAGCTCAAGC 120
DB 3330 ATGAGACCTTTGAAAGATCTCAGGAATCTCAAGAGGCAAGATGAGTGAAGCTCAAGC 3389
QY 121 TGCAGCAAGCTGAGGATGATCAAGGATCTGAGAGCCCGCTGGGCGATCTCTCATTTGACT 180
DB 3390 TGCAGCAAGCTGAGGATGATCAAGGATCTGAGAGCCCGCTGGGCGATCTCTCATTTGACT 3449
QY 181 CTCTCCAAAGTACCTTGAGAAAGTCAAGGCACTTGAGAGGAAATTTGGCGCTCTGAAAG 240
DB 3450 CTCTCCAAAGTACCTTGAGAAAGTCAAGGCACTTGAGAGGAAATTTGGCGCTCTGAAAG 3509
QY 241 AGAAGTGAAGCAAGTCAATGACCTTGTGCTGACCTTACCACTTTGGCAATTCAGCTCT 300
DB 3510 AGAAGTGAAGCAAGTCAATGACCTTGTGCTGACCTTACCACTTTGGCAATTCAGCTCT 3569
QY 301 CACCGTAACTCTGAGCACTCTGAGAGACTGAAACCAAGATGGAAGCTTTGCAAGGTTG 360
DB 3570 CACCGTAACTCTGAGCACTCTGAGAGACTGAAACCAAGATGGAAGCTTTGCAAGGTTG 3629

QY 361 CCGTGAAGACCGAGTCAAGAGCTGATGAAGCCACAGGGACTTTGTCAGACTGTC 420
DB 3630 CCGTGAAGACCGAGTCAAGAGCTGATGAAGCCACAGGGACTTTGTCAGACTGTC 3689
QY 421 AGCACTTTCCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAA 480
DB 3690 AGCACTTTCCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAA 3749
QY 481 TGCCTTACTATATCAACACAGAGACTCAAAACATTTGCTGGAGCCATCCCAAAATGACAG 540
DB 3750 TGCCTTACTATATCAACACAGAGACTCAAAACATTTGCTGGAGCCATCCCAAAATGACAG 3809
QY 541 AGCTTACACACTCTTTAGCTGACCGGATTAATGTGAGATTTCAGCTTATAGACTGACA 600
DB 3810 AGCTTACACACTCTTTAGCTGACCGGATTAATGTGAGATTTCAGCTTATAGACTGACA 3869
QY 601 TGAACCTCCAGAGACTGACAGAGAGCCCTTTGCTTGATCTCTTGAGCTGTACAGCTGAT 660
DB 3870 TGAACCTCCAGAGACTGACAGAGAGCCCTTTGCTTGATCTCTTGAGCTGTACAGCTGAT 3929
QY 661 GTGATGCTTGGACCAAGCAACTCAAGCAAAATGACCAAGCCATGATATCTGCGAGA 720
DB 3930 GTGATGCTTGGACCAAGCAACTCAAGCAAAATGACCAAGCCATGATATCTGCGAGA 3989
QY 721 TTATTTAATGTTTGAACAATAATTAAGACCGCTGGAGCAAGAGCAAAATTTGTCAT 780
DB 3990 TTATTTAATGTTTGAACAATAATTAAGACCGCTGGAGCAAGAGCAAAATTTGTCAT 4049
QY 781 ACCTCCCTCTCTGCGTGTGATATGTGTCTGAACCTGCTGCTGATGTTTATGATACGGAC 840
DB 4050 ACCTCCCTCTCTGCGTGTGATATGTGTCTGAACCTGCTGCTGATGTTTATGATACGGAC 4109
QY 841 GAACAGGAGAGATCCGTCTCTCTTTTAAACCTGCGATCATTTCCCTGTGTAAAGAC 900
DB 4110 GAACAGGAGAGATCCGTCTCTCTTTTAAACCTGCGATCATTTCCCTGTGTAAAGAC 4169
QY 901 ATTTGGAAGACAAGTACGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTG 960
DB 4170 ATTTGGAAGACAAGTACGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTG 4229
QY 961 ACCAGCGAGGCTGGGCTCTCTTCTGACGATTTCTATCCAAATTCAGAGAGTTGGGTG 1020
DB 4230 ACCAGCGAGGCTGGGCTCTCTTCTGACGATTTCTATCCAAATTCAGAGAGTTGGGTG 4289
QY 1021 AAGTTGCACTCTTTGGGGGAGTAAACATTTGAGCCAAAGTGTCCGAGCTGCTTCAATTTG 1080
DB 4290 AAGTTGCACTCTTTGGGGGAGTAAACATTTGAGCCAAAGTGTCCGAGCTGCTTCAATTTG 4349
QY 1081 CTATTAATTAAGCCAGAGATCGAAGCGGCGCTTCTCTGACCTGATGATGAGACTGGAACCC 1140
DB 4350 CTATTAATTAAGCCAGAGATCGAAGCGGCGCTTCTCTGACCTGATGATGAGACTGGAACCC 4409
QY 1141 AGTCATGATGTGCTGCTGCTCTGACAGAGTGGCTGTCAGAGAACTGCCAAGCATC 1200
DB 4410 AGTCATGATGTGCTGCTGCTCTGACAGAGTGGCTGTCAGAGAACTGCCAAGCATC 4469
QY 1201 AGGCCAAATGTACATCTGCAAAAGGTGTCCATCATTTGATTCAGGTACAGAGACTTAA 1260
DB 4470 AGGCCAAATGTACATCTGCAAAAGGTGTCCATCATTTGATTCAGGTACAGAGACTTAA 4529
QY 1261 AGCACTTTAATTAAGACATCTGCCAAAGCTGTTTTTCTGTGCGAATTTGCCAAAGGCC 1320
DB 4530 AGCACTTTAATTAAGACATCTGCCAAAGCTGTTTTTCTGTGCGAATTTGCCAAAGGCC 4589
QY 1321 ATAAATATGATATCCATGATGTGAATTTGCACTCCGACTACATCAGAGAGAGATGTTT 1380
DB 4590 ATAAATATGATATCCATGATGTGAATTTGCACTCCGACTACATCAGAGAGAGATGTTT 4649
QY 1381 GAGACTTTGCCAAGTACTTAAACAAATTTGCAACCAAAAGGTATTTTGGAGACATC 1440
DB 4650 GAGACTTTGCCAAGTACTTAAACAAATTTGCAACCAAAAGGTATTTTGGAGACATC 4709

QY 1441 CCCGATGGCTTACTGCTGCAAGTGAAGCTGTCTTAGAGGGGAGCAACATGAAACTCCG 1500
DB 4710 CCCGATGGCTTACTGCTGCAAGTGAAGCTGTCTTAGAGGGGAGCAACATGAAACTCCG 4769
QY 1501 A 1501
DB 4770 A 4770

RESULT 12
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGTCAATATCTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATAG 60
DB 3340 AGTCAATATCTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATAG 3399
QY 61 ATGAGACCTTGAAGAAGCTCCAGGAACCTTCAAGAGCCACGAGATGAGCTCAAGC 120
DB 3400 ATGAGACCTTGAAGAAGCTCCAGGAACCTTCAAGAGCCACGAGATGAGCTCAAGC 3459
QY 121 TGGCCAAAGTGAAGTATCAAGGATCTGGACCCGCTGGGAGATCTCTCATTTGACT 180
DB 3460 TGGCCAAAGTGAAGTATCAAGGATCTGGACCCGCTGGGAGATCTCTCATTTGACT 3519
QY 181 CTCTCAAGATCACCTCGAAGAACTCAAGGACCTTTCAGAGAAATTTGCGCTTGAAG 240
DB 3520 CTCTCAAGATCACCTCGAAGAACTCAAGGACCTTTCAGAGAAATTTGCGCTTGAAG 3579
QY 241 AGAAGTGAAGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTGAGCT 300
DB 3580 AGAAGTGAAGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTGAGCT 3639
QY 301 CACCGTAACTCTGACGACTTGGAGAACTGGAACACCAAGATGGAAGCTTTCGAGGTGG 360
DB 3640 CACCGTAACTCTGACGACTTGGAGAACTGGAACACCAAGATGGAAGCTTTCGAGGTGG 3699
QY 361 CCGTGAAGACCGAGTCAAGGAGCTGCAAGAGCCACAGGAGCTTTGGTCAGACATCTC 420
DB 3700 CCGTGAAGACCGAGTCAAGGAGCTGCAAGAGCCACAGGAGCTTTGGTCAGACATCTC 3759
QY 421 AGCACTTTCCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAA 480
DB 3760 AGCACTTTCCTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAA 3819
QY 481 TGCCTTACTATATCAACACAGAGACTCAAAACATTTGCTGGAGCCATCCCAAAATGACAG 540
DB 3820 TGCCTTACTATATCAACACAGAGACTCAAAACATTTGCTGGAGCCATCCCAAAATGACAG 3879
QY 541 AGCTTACACACTCTTTAGCTGACCGGATTAATGTGAGATTTCAGCTTATAGACTGACA 600
DB 3880 AGCTTACACACTCTTTAGCTGACCGGATTAATGTGAGATTTCAGCTTATAGACTGACA 3939

QY 841 GAACAGGAGAGATCCGTCCTCTTTTAAACGSCATCATTTCCCTGTGTAAGAC 900
DB 4269 GAACAGGAGAGATCCGTCCTCTTTTAAACGSCATCATTTCCCTGTGTAAGAC 4328
QY 901 ATTTGAAGACAGATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTG 960
DB 4329 ATTTGAAGACAGATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTG 4388
QY 961 ACCAGCGAGGCTGGGCTCTCTTCTGCAATGATTTTCAAAATTCGAAGACGTTGGGTG 1020
DB 4389 ACCAGCGAGGCTGGGCTCTCTTCTGCAATGATTTTCAAAATTCGAAGACGTTGGGTG 4448
QY 1021 AAGTTGATCTCTTTGGGGGAGTAACTGAGCCCAAGTCCGAGCTTCCAAATTTG 1080
DB 4449 AAGTTGATCTCTTTGGGGGAGTAACTGAGCCCAAGTCCGAGCTTCCAAATTTG 4508
QY 1081 CTAATTAATTAAGCAGATACGAGCGGCTCTTCTAGACTGATGAGACTGAAACCC 1140
DB 4509 CTAATTAATTAAGCAGATACGAGCGGCTCTTCTAGACTGATGAGACTGAAACCC 4568
QY 1141 AGTCATGTGTGCTGCTCCCTCTGCAAGAGTGGCTGCGAGAACTGCGCAAGCATC 1200
DB 4569 AGTCATGTGTGCTGCTCCCTCTGCAAGAGTGGCTGCGAGAACTGCGCAAGCATC 4628
QY 1201 AGGCGAATGTAACATCTGCAAGAGTGTCCAAATGATGATTCAGATTCAGAGATCTTA 1260
DB 4629 AGGCGAATGTAACATCTGCAAGAGTGTCCAAATGATGATTCAGATTCAGAGATCTTA 4688
QY 1261 AGCATTTAATTAATGACATCTGCGCAAGCTGTTTTTCTGTGTCGATTCGCAAGAGCC 1320
DB 4689 AGCATTTAATTAATGACATCTGCGCAAGCTGTTTTTCTGTGTCGATTCGCAAGAGCC 4748
QY 1321 ATAAATGACATCTGCAAGTGTGTAATTTGCACTCCGACTACATCAGAGAGAGATGTTT 1380
DB 4749 ATAAATGACATCTGCAAGTGTGTAATTTGCACTCCGACTACATCAGAGAGAGATGTTT 4808
QY 1381 GAGCTTTGCCAAGTACTATAAAACAAATTTGCAACCAAAAGATTTTGGAGAGCATC 1440
DB 4809 GAGCTTTGCCAAGTACTATAAAACAAATTTGCAACCAAAAGATTTTGGAGAGCATC 4868
QY 1441 CCCGAATGGGCTACCTGCGCAGTGCAGATCTGTTTGAAGGGGAGCAACATGGAATCTCCG 1500
DB 4869 CCCGAATGGGCTACCTGCGCAGTGCAGATCTGTTTGAAGGGGAGCAACATGGAATCTCCG 4928
QY 1501 A 1501
DB 4929 A 4929

RESULT 14
US-10-149-736-42
Sequence 42, Application US/10149736
Publication No. US2003021632A1
GENERAL INFORMATION:
APPLICANT: Chamberlain, Jeffrey S.
APPLICANT: Harper, Scott Q.
TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
FILE REFERENCE: UM-06968
CURRENT APPLICATION NUMBER: US/10/149,736
CURRENT FILING DATE: 2002-06-17
PRIOR APPLICATION NUMBER: PCT/US01/31126
PRIOR FILING DATE: 2001-10-04
PRIOR APPLICATION NUMBER: 60/238,848
PRIOR FILING DATE: 2000-10-06
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn version 3.1.1
SEQ ID NO 42
LENGTH: 8689
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic

US-10-149-736-42
Query Match: 99.9%; Score 1500; DB 17; Length 8689;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGGTCAATCTAGATGGGAAAAATTGAACCTGCACTCGCTGACTGCGAGAAAAATAG 60
DB 3669 AGGTCAATCTAGATGGGAAAAATTGAACCTGCACTCGCTGACTGCGAGAAAAATAG 3728
QY 61 ATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGCAAC 120
DB 3729 ATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCACGATGAGCTGCAAC 3788
QY 121 TGCCCAAGCTGAGATGATCAAGGAACTCCGAGCCCGTGGGGATCTCTCAATGACT 180
DB 3789 TGCCCAAGCTGAGATGATCAAGGAACTCCGAGCCCGTGGGGATCTCTCAATGACT 3848
QY 181 CTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTGAAAG 240
DB 3849 CTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGAGAAATTGCGCTGAAAG 3908
QY 241 AGAAGTGAGCCAGTCAATGACCTTGTGCGCACTTACCACTTTGGGCAATGACTCT 300
DB 3909 AGAAGTGAGCCAGTCAATGACCTTGTGCGCACTTACCACTTTGGGCAATGACTCT 3968
QY 301 CACCGTATTAACCTGAGCACTTGGAAAGCTGAAACCAAGATGGAAGCTTTCAGAGTGG 360
DB 3969 CACCGTATTAACCTGAGCACTTGGAAAGCTGAAACCAAGATGGAAGCTTTCAGAGTGG 4028
QY 361 CCGTGAAGACCGAGTCAAGGAGCTGATGAAGCCACAGGAGCTTTGGTGCAGATCTC 420
DB 4029 CCGTGAAGACCGAGTCAAGGAGCTGATGAAGCCACAGGAGCTTTGGTGCAGATCTC 4088
QY 421 AGCATTTCTTTCCAGCTGTCTGCAAGGCTCTCTGGAGAGAGCCATCTGCCAAACAAAG 480
DB 4089 AGCATTTCTTTCCAGCTGTCTGCAAGGCTCTCTGGAGAGAGCCATCTGCCAAACAAAG 4148
QY 481 TGCCCTAATTAATGAAACCAAGAGACTGAAACATCTGTGGGACCATCCAAATGACAG 540
DB 4149 TGCCCTAATTAATGAAACCAAGAGACTGAAACATCTGTGGGACCATCCAAATGACAG 4208
QY 541 AGCTTCAACAGTCTTTAGCTGACCTGAATTAATGTCAGATTTCAAGCTTATAGACTGCA 600
DB 4209 AGCTTCAACAGTCTTTAGCTGACCTGAATTAATGTCAGATTTCAAGCTTATAGACTGCA 4268
QY 601 TGAACCTCGAAGACTGCAAGAGGCTCTTGTGGATCTCTTGAAGCTGTCAAGCTGAT 660
DB 4269 TGAACCTCGAAGACTGCAAGAGGCTCTTGTGGATCTCTTGAAGCTGTCAAGCTGAT 4328
QY 661 GTGATGCTTTGGACCAAGCAACCTTCMAAGCAAAATGACCAAGCAATGATCTCGCAGA 720
DB 4329 GTGATGCTTTGGACCAAGCAACCTTCMAAGCAAAATGACCAAGCAATGATCTCGCAGA 4388
QY 721 TTATTAATTTTGGACCACTAATTAATGACCGCTGAGAGCAAGAGCAACAATTTGTGCA 780
DB 4389 TTATTAATTTTGGACCACTAATTAATGACCGCTGAGAGCAAGAGCAACAATTTGTGCA 4448
QY 781 AGCTCCCTCTCTGCGTGAATATGTCGAACTGGCTGCTGAATTTTATGATACGGGAC 840
DB 4449 AGCTCCCTCTCTGCGTGAATATGTCGAACTGGCTGCTGAATTTTATGATACGGGAC 4508
QY 841 GAACAGGAGAGATCCGTCCTCTTTTAAACGTCGATCAATTTCCCTGTGTAAGAC 900
DB 4509 GAACAGGAGAGATCCGTCCTCTTTTAAACGTCGATCAATTTCCCTGTGTAAGAC 4568
QY 901 ATTTGAAGACAGATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTG 960
DB 4569 ATTTGAAGACAGATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTG 4628
QY 961 ACCAGCGAGGCTGGGCTCTCTTCTGCAATGATTTTCAAAATTCGAAGACGTTGGGTG 1020
DB 4629 ACCAGCGAGGCTGGGCTCTCTTCTGCAATGATTTTCAAAATTCGAAGACGTTGGGTG 4688

QY 1021 AGGTGATCTTTGGGGGAGTAACATTGAGCGAAGTGCAGAGCTGCTTCAATTGG 1080
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|
|
Db 4689 AAGTGGATCTTTGGGGGAGTAACATTGAGCGAAGTGCAGAGCTGCTTCAATTGG 4748
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QY 1081 CTAAATAAGCCAGAGATGAAAGCGCCCTCTTCTTGACTGATGAGACTGGAACCC 1140
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|
Db 4749 CTAAATAAGCCAGAGATGAAAGCGCCCTCTTCTTGACTGATGAGACTGGAACCC 4808
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|
|
QY 1141 AGTCCATGCTGCTGCCCTGCTGCAAGAGTGCCTGCTGAGAACTGCCAGCATC 1200
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|
|
Db 4809 AGTCCATGCTGCTGCCCTGCTGCAAGAGTGCCTGCTGAGAACTGCCAGCATC 4868
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|
|
QY 1201 AGCCCAATGTAACTCTGCAAGAGTGTCAATCTGATTCAGTACAGAGCTTAA 1260
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|
|
Db 4869 AGCCCAATGTAACTCTGCAAGAGTGTCAATCTGATTCAGTACAGAGCTTAA 4928
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|
|
QY 1261 AGCACTTAAATTAATGATCTGCAAGAGTGTCTTTTCTGCTGAGTTGCAAAAGCC 1320
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|
Db 4929 AGCACTTAAATTAATGATCTGCAAGAGTGTCTTTTCTGCTGAGTTGCAAAAGCC 4988
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QY 1321 ATAAATGACTATCCATGCTGAGAAATATTGACTCCGCTCATCAGAGAAAGATGTT 1380
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Db 4989 ATAAATGACTATCCATGCTGAGAAATATTGACTCCGCTCATCAGAGAAAGATGTT 5048
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|
QY 1381 GAGACTTTGCCAAGGTACTTAAACAAATTTGCAACCAAAAGTATTTTGGAGCATC 1440
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|
|
Db 5049 GAGACTTTGCCAAGGTACTTAAACAAATTTGCAACCAAAAGTATTTTGGAGCATC 5108
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|
|
QY 1441 CCCGATGGGCTACCTGCCAGTGCAGACTGCTTTGAGGGGCAACAATGAACTCCCG 1500
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Db 5109 CCCGATGGGCTACCTGCCAGTGCAGACTGCTTTGAGGGGCAACAATGAACTCCCG 5168
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RESULT 15

US-09-845-416-1
; Sequence 1, Application us/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEROP
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 99.9%; Score 1500; DB 10; Length 11058;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGGTCAATCTAGTGGGAAAATTTGAACCTGCACTCCGCTGACTGSCAGAGAAAATAG 60
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Db 8729 AGGTCAATCTAGTGGGAAAATTTGAACCTGCACTCCGCTGACTGSCAGAGAAAATAG 8788
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QY 61 ATAGAACCTTTGAAAGCTCCAGAACTTCAAGAGCCAGATGAGCTGAGCTCAAGC 120
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Db 8789 ATAGAACCTTTGAAAGCTCCAGAACTTCAAGAGCCAGATGAGCTGAGCTCAAGC 8848
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|
QY 121 TGGCCAAAGCTGAGTATCAAGGATCTGGAGCCCGGGCGATCTCTTCAATGACT 180
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|
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Db 8849 TGGCCAAAGCTGAGTATCAAGGATCTGGAGCCCGGGCGATCTCTTCAATGACT 8908
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QY 181 CTCTCAAGATCACTCTGAGAAAGTCAAGGCACTTGGAGGAAATTTGGCTCTGAAAG 240
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Db 8909 CTCTCAAGATCACTCTGAGAAAGTCAAGGCACTTGGAGGAAATTTGGCTCTGAAAG 8968
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QY 241 AGAAGTGAAGCCACTCAATGACCTTGTCCGACGTTAACCACTTTGGGCAATTCAGCTCT 300
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Db 8969 AGAAGTGAAGCCACTCAATGACCTTGTCCGACGTTAACCACTTTGGGCAATTCAGCTCT 9028
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QY 301 CACCGTAATACCTCAGCACTCTGGAAGCTGAAACCAAGATGGAAGCTTTCAGAGTGG 360
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Db 9029 CACCGTAATACCTCAGCACTCTGGAAGCTGAAACCAAGATGGAAGCTTTCAGAGTGG 9088
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QY 361 CCGTGAAGGACCGAGTCAAGGAGCTGATGAAGCCCAAGGCACTTTGTCCACATCTC 420
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|
Db 9089 CCGTGAAGGACCGAGTCAAGGAGCTGATGAAGCCCAAGGCACTTTGTCCACATCTC 9148
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QY 421 AGCACTTCTTTCAAGCTCTGTCCAGGAGCTCTGGAGAGAGCCATCCCAAAATGACAG 480
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Db 9149 AGCACTTCTTTCAAGCTCTGTCCAGGAGCTCTGGAGAGAGCCATCCCAAAATGACAG 9208
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QY 481 TGCCCTATATATGAACAAGAGCTCAAACTTGTCTGAGACATCCCAAAATGACAG 540
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Db 9209 TGCCCTATATATGAACAAGAGCTCAAACTTGTCTGAGACATCCCAAAATGACAG 9268
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QY 541 AGCTCTACAGTCTTTAGCTGACCTGAATATGTCAGATTCAGCTTATAGACTGCCA 600
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Db 9269 AGCTCTACAGTCTTTAGCTGACCTGAATATGTCAGATTCAGCTTATAGACTGCCA 9328
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QY 601 TGAATCTCCGAAGCTGCAAGAGGCTTTGCTTGAATCTTTGAGCTGTGACCTGCAT 660
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Db 9329 TGAATCTCCGAAGCTGCAAGAGGCTTTGCTTGAATCTTTGAGCTGTGACCTGCAT 9388
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|
QY 661 GTGATGCTTTGGAACAAGCACAACCTCAAGAAATACCAAGCCCATGATATTCCTGACA 720
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Db 9389 GTGATGCTTTGGAACAAGCACAACCTCAAGAAATACCAAGCCCATGATATTCCTGACA 9448
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|
QY 721 TTAATTAATTTGTGACCACTATTATTATGACCGCTGAGAGACCAACAATTTGCTCA 780
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Db 9449 TTAATTAATTTGTGACCACTATTATTATGACCGCTGAGAGACCAACAATTTGCTCA 9508
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QY 781 AGGTCCCTCTGCGGAGATGATGTCGTAATGCTGCTGTAATGTTATGATCGGAC 840
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Db 9509 AGGTCCCTCTGCGGAGATGATGTCGTAATGCTGCTGTAATGTTATGATCGGAC 9568
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QY 841 GAAACAGGAGATCCGTCGTCGTCCTTTTAAACCTGCACTCAATTCCTGCTGAAAGCAC 900
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|
Db 9569 GAAACAGGAGATCCGTCGTCGTCCTTTTAAACCTGCACTCAATTCCTGCTGAAAGCAC 9628
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|
|
QY 901 ATTTGGAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTATTTGTC 960
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|
|
Db 9629 ATTTGGAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTATTTGTC 9688
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QY 961 ACCAGCGAGGCTGGGCTCTCTTGCATGATTTCTATCCAAATTCCAAGACGTTGGTC 1020
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Db 9689 ACCAGCGAGGCTGGGCTCTCTTGCATGATTTCTATCCAAATTCCAAGACGTTGGTC 9748
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QY 1021 AAGTTCATCTTTTGGGGCAGTAACTTTAGCCCAAGTGTCCGAGCTCTTCAATTTG 1080
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Db 9749 AAGTTCATCTTTTGGGGCAGTAACTTTAGCCCAAGTGTCCGAGCTCTTCAATTTG 9808
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QY 1081 CTAAATAAGCCAGAGATGAAAGCGCCCTTCTTGACTGATGAGACTGGAACCC 1140
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Db 9809 CTAAATAAGCCAGAGATGAAAGCGCCCTTCTTGACTGATGAGACTGGAACCC 9868
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QY 1141 AGTCCATGCTGCTGCCCTGCTGCAAGAGTGCCTGCGAAGCTGCCAAGATC 1200
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Db 9869 AGTCCATGCTGCTGCCCTGCTGCAAGAGTGCCTGCGAAGCTGCCAAGATC 9928
|
|
|
QY 1201 AGCCCAATGTAACTCTGCAAGAGTGTCAATCTGATTCAGGTAAGAGAGTCTAA 1260
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|
|
Db 9929 AGCCCAATGTAACTCTGCAAGAGTGTCAATCTGATTCAGGTAAGAGAGTCTAA 9988
|
|
|
QY 1261 AGCACTTAAATTAATGATCTGCAAGAGTGTCTTTTCTGCTGAGTTGCAAAAGCC 1320
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|
|
Db 9989 AGCACTTAAATTAATGATCTGCAAGAGTGTCTTTTCTGCTGAGTTGCAAAAGCC 10048
|
|
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 04:16:40 ; Search time 261.233 Seconds
(without alignments)
9401.765 Million cell updates/sec

Title: US-09-845-416-12_COPY_2000_3500

Perfect score: 1501

Sequence: 1 aggcatactactgagtgga.....gacacatggaactcccg 1501

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/5A.COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5B.COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq: *
5: /cgn2_6/ptodata/1/ina/PTUS.COMB.seq: *
6: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1500	99.9	5952	4	US-09-687-875A-1
2	1498.4	99.8	5627	4	US-09-949-016-2831
3	1498.4	99.8	5627	4	US-09-949-016-2832
4	1498.4	99.8	7109	4	US-09-949-016-2812
5	1498.4	99.8	7109	4	US-09-949-016-2813
6	1498.4	99.8	7109	4	US-09-949-016-2814
7	1498.4	99.8	7109	4	US-09-949-016-2815
8	1498.4	99.8	7109	4	US-09-949-016-2816
9	1498.4	99.8	7109	4	US-09-949-016-2817
10	1498.4	99.8	7109	4	US-09-949-016-2818
11	1498.4	99.8	7109	4	US-09-949-016-2819
12	1498.4	99.8	7141	4	US-09-949-016-2820
13	1498.4	99.8	7141	4	US-09-949-016-2822
14	1498.4	99.8	7141	4	US-09-949-016-2823
15	1498.4	99.8	7141	4	US-09-949-016-2824
16	1498.4	99.8	7141	4	US-09-949-016-2825
17	1495.2	99.6	7070	4	US-09-949-016-2804
18	1495.2	99.6	7070	4	US-09-949-016-2805
19	1495.2	99.6	7070	4	US-09-949-016-2806
20	1495.2	99.6	7070	4	US-09-949-016-2807
21	1495.2	99.6	7070	4	US-09-949-016-2808
22	1495.2	99.6	7070	4	US-09-949-016-2809
23	1495.2	99.6	7070	4	US-09-949-016-2810
24	1495.2	99.6	7070	4	US-09-949-016-2811
25	1489	99.6	13977	3	US-09-484-970B-60
26	1309.6	87.2	19307	3	US-08-836-022A-10
27	1309.6	87.2	19307	3	US-09-427-048A-10

28	1000.8	66.7	4556	4	US-09-949-016-2826	Sequence 2826, Ap
29	1000.8	66.7	4556	4	US-09-949-016-2827	Sequence 2827, Ap
30	1000.8	66.7	4556	4	US-09-949-016-2828	Sequence 2828, Ap
31	1000.8	66.7	4556	4	US-09-949-016-2829	Sequence 2829, Ap
32	1000.8	66.7	4556	4	US-09-949-016-2830	Sequence 2830, Ap
33	999	66.6	1571	4	US-09-949-016-2831	Sequence 2831, Ap
34	755.6	50.3	6045	4	US-09-091-501B-7	Sequence 9, Appl1
35	755.6	50.3	10320	4	US-09-091-501B-9	Sequence 9, Appl1
36	694.2	46.2	3499	4	US-09-949-016-276	Sequence 276, App
37	692.6	46.1	3498	4	US-09-949-016-1359	Sequence 1359, App
38	681.8	45.4	3915	4	US-09-976-594-93	Sequence 93, Appl
39	209.8	14.0	393753	4	US-09-949-016-14573	Sequence 14573, A
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43	209.8	14.0	818128	4	US-09-949-016-14548	Sequence 14548, A
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45	209.8	14.0	818128	4	US-09-949-016-14550	Sequence 14550, A

ALIGNMENTS

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RESULT 1
US-09-687-875A-1
Sequence 1, Application US/09687875A
Parent No. 6544786
GENERAL INFORMATION:
APPLICANT: Xiao, Paul
TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
FILE REFERENCE: 00792
CURRENT FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 60/158,868
PRIOR FILING DATE: 1999-10-15
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 5952
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (2897)..(2898)
OTHER INFORMATION: S4 junction site
NAME/KEY: misc feature
LOCATION: (3198)..(3199)
OTHER INFORMATION: S2 junction site
US-09-687-875A-1
Query Match 99.9%; Score 1500; DB 4; Length 5952;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGGCAATACAGTGGGAAATTTGAACCTGCACTCGCTGACTGGCAGAGAAATAG 60
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DB 3663 ATGAGACCTTTGAAGAATCTCCAGAACTTCAAGAGCCAGATGAGCTGACCTCAAGC 3742
QY 121 TGGCCCAAGCTGAGGTATCAAGGATCTTGGCAGCCGCTGGGATCTCTCATTTGACT 180
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QY 181 CTCTCAAGATCACTGAGAAAGTCAAGGACCTTCGAGAGAAATTGCGCTCTGAAG 240
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Db 3923 CACCGTAACTCTAGACCTCTGAAAGCTTGAACCAAGATGAAAGCTTCTGACAGTGG 3982
QY 361 CCGTCAAGAGCCGAGTCAAGCTGATGAAAGCCCAAGAGGCACTTGTGATCTC 420
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QY 421 AGCACTTCTTTCAGCTGCTGTCAGAGGCTCTGAGAGAGCCATCTGCGCAACAAAG 480
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QY 481 TCGCTTACTATATCAACCAAGAGCTCAACCAACTTGTGAGAGCAATCCCAAAATGACAG 540
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Db 4163 AGCTTACCAAGCTTCTAGCTGATGATTAATGTCAGATTTCTCAGTTATAGACTGCCA 4282
QY 601 TGAACCTCCGAAGCTGAGAGAGCCCTTGTGATGATCTTGAAGCTGTGACGTGCAT 660
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QY 661 GTGATGCTTGGACCAAGCAACTCTCAAGCAAAATGACCAAGCCATGATATCTCTGACA 720
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QY 1381 GAGACTTTGCCAAGGTACTATAAAACAAATTTGAAACCAAAAGGATTTTGGAGCATC 1440
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RESULT 2
US-09-949-016-2831
; Sequence 2831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2831
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2831

Query Match 99.8%; Score 1498.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 121 TCGGCAAGCTGAGGTATCAAGGATCTGAGAGCCGCGGAGATCTCTCATTTGACT 180
Db 723 TCGGCAAGCTGAGGTATCAAGGATCTGAGAGCCGCGGAGATCTCTCATTTGACT 782
QY 181 CTCTCAAGATCACCTGAGAAAGTCAAGGACTTGAAGAGAAATGGCCCTGGAAG 240
Db 783 CTCTCAAGATCACCTGAGAAAGTCAAGGACTTGAAGAGAAATGGCCCTGGAAG 842
QY 241 AGAAGTGAAGCACTGTAATGACTTGTGCGCAGCTTCACTTTGGGCAATTCAGCT 300
Db 843 AGAAGTGAAGCACTGTAATGACTTGTGCGCAGCTTCACTTTGGGCAATTCAGCT 902
QY 301 CACCGTAACTCTAGACCTCTGAAAGCTTGAACCAAGATGAAAGCTTCTGACAGTGG 360
Db 903 CACCGTAACTCTAGACCTCTGAAAGCTTGAACCAAGATGAAAGCTTCTGACAGTGG 962
QY 361 CCGTCAAGAGCCGAGTCAAGCTGATGAAAGCCCAAGGACCTTGTGATCTC 420
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QY 481 TCGCTTACTATCAACCAAGAGCTCAACCAACTTGTGAGAGCAATCCCAAAATGACAG 540

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Db AGGCCAAATGTAACATCTGCAAAAGAGTTCATGATGATTCAGATTCAGAGAT 1803
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RESULT 3
US-09-949-016-2832
; Sequence 2832, Application US/09949016
; Patent No. 6812319
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

Query Match 99.8%; Score 1498.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGCTCAATTAAGTGGGAAAAATTTGAACCTGCACTCGCTGACTGGCAGAAAAATAG 60
Db AGCTCAATTAAGTGGGAAAAATTTGAACCTGCACTCGCTGACTGGCAGAAAAATAG 662
QY 61 ATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGTGGACCTCAAG 120
Db ATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGTGGACCTCAAG 722
QY 121 TGGCGCAAGCTGAGGTGATCAAGGAGATCTGGAGCCGCTGGGCGATCTCCTATTG 180
Db TGGCGCAAGCTGAGGTGATCAAGGAGATCTGGAGCCGCTGGGCGATCTCCTATTG 782
QY 181 CTCTCAAGATCACTCGAAGAACTCAAGGCACTTCAAGAGAAATGCGCTTGAAG 240
Db CTCTCAAGATCACTCGAAGAACTCAAGGCACTTCAAGAGAAATGCGCTTGAAG 842
QY 783 CTCTCAAGATCACTCGAAGAACTCAAGGCACTTCAAGAGAAATGCGCTTGAAG 842
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QY 241 AGAAGTGAAGCAAGTCAATGATCTTGGCTGCGCAAGCTTCAAGATTTGAGCT 300
Db AGAAGTGAAGCAAGTCAATGATCTTGGCTGCGCAAGCTTCAAGATTTGAGCT 902
QY 843 AGAAGTGAAGCAAGTCAATGATCTTGGCTGCGCAAGCTTCAAGATTTGAGCT 902
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QY 301 CACCGTAACTGAGCACTGGAAGCACTGGAAGCACTGGAAGCACTGGAAGCACT 360
Db CACCGTAACTGAGCACTGGAAGCACTGGAAGCACTGGAAGCACTGGAAGCACT 962
QY 361 CCGTGAAGCAAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGT 420
Db CCGTGAAGCAAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGT 1022
QY 963 CCGTGAAGCAAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGT 1022
Db CCGTGAAGCAAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGT 1022
QY 421 AGCACTTTCTTCAAGCTGCTGCAAGGCTCTTGGAGAGAGCCATCTGCGCAAAAG 480
Db AGCACTTTCTTCAAGCTGCTGCAAGGCTCTTGGAGAGAGCCATCTGCGCAAAAG 1082
QY 1023 AGCACTTTCTTCAAGCTGCTGCAAGGCTCTTGGAGAGAGCCATCTGCGCAAAAG 1082
Db AGCACTTTCTTCAAGCTGCTGCAAGGCTCTTGGAGAGAGCCATCTGCGCAAAAG 1082
QY 481 TGCCCTACTATATCAACCAAGAGCTCAAACTGCTGGAGCACTGCAAAATGACAG 540
Db TGCCCTACTATATCAACCAAGAGCTCAAACTGCTGGAGCACTGCAAAATGACAG 1142
QY 541 AGCTTCAAGCTTTTATGCTGATGATGATGATGATGATGATGATGATGATGATG 600
Db AGCTTCAAGCTTTTATGCTGATGATGATGATGATGATGATGATGATGATGATG 1202
QY 1143 AGCTTCAAGCTTTTATGCTGATGATGATGATGATGATGATGATGATGATGATG 1202
Db AGCTTCAAGCTTTTATGCTGATGATGATGATGATGATGATGATGATGATGATG 1202
QY 601 TGAACCTCGAAGACTGAGAGAGGCTTTGCTTGGATCTTGAAGCTGCAAGT 660
Db TGAACCTCGAAGACTGAGAGAGGCTTTGCTTGGATCTTGAAGCTGCAAGT 1262
QY 1203 TGAACCTCGAAGACTGAGAGAGGCTTTGCTTGGATCTTGAAGCTGCAAGT 1262
Db TGAACCTCGAAGACTGAGAGAGGCTTTGCTTGGATCTTGAAGCTGCAAGT 1262
QY 661 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCA 720
Db GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCA 1322
QY 1263 GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCA 1322
Db GTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTGCA 1322
QY 721 TTATTTAATTTGTTGACCACTATTTATGACCGCTGGACCAAGACAACTTTGTC 780
Db TTATTTAATTTGTTGACCACTATTTATGACCGCTGGACCAAGACAACTTTGTC 780

1323 TTATTAATTGTTTGACCACTATTATGACCGCTGGAGCAAGACACAACAATTGGTCA 1382
QY ACGTCCCTCTCGGTGGATATGTCTGAACTGGCTGCGAATGTTATGATACGGGAC 840
Db 1383 ACGTCCCTCTCGGTGGATATGTCTGAACTGGCTGCGAATGTTATGATACGGGAC 1442
QY 841 GAACAGGAGAGATCCGTGCTCTGCTTTTAAACCTGGCATCATTTCCCTGTAAACAC 900
Db 1443 GAACAGGAGAGATCCGTGCTCTGCTTTTAAACCTGGCATCATTTCCCTGTAAACAC 1502
QY ATTGGAAGCAAACTAACAGATCACTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTG 960
Db 1503 ATTGGAAGCAAACTAACAGATCACTTTTCAAGCAAGTGGCAAGTTCAACAGATTGTTG 1562
QY 961 ACCAGCGCAGGCTGGGCTCTCTCTGATGATCTTCAAAATTCAGCAAGCAATTGGGTTG 1020
Db 1563 ACCAGCGCAGGCTGGGCTCTCTCTGATGATCTTCAAAATTCAGCAAGCAATTGGGTTG 1622
QY 1021 AAGTTGATCTCTTGGGGGCAATTAATTGAGCCAAAGTGTCCGAGCTGCTTCAATTG 1080
Db 1623 AAGTTGATCTCTTGGGGGCAATTAATTGAGCCAAAGTGTCCGAGCTGCTTCAATTG 1682
QY 1081 CTATATAAGCAGAGATGGAAGCGGCTCTCTCTAAGCTGATGAGATGGAACCC 1140
Db 1683 CTATATAAGCAGAGATGGAAGCGGCTCTCTCTAAGCTGATGAGATGGAACCC 1742
QY 1141 AGTTCATGCTGTGGCTGCTGCTGCTGCAAGATGCTGCTGCAAGATGCTGCAAGATC 1200
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QY 1201 AGGCAATGTAATCATCTGCAAAAGTGTCAATCTTGGATTCAGATCAGAGCTTAA 1260
Db 1803 AGGCAATGTAATCATCTGCAAAAGTGTCAATCTTGGATTCAGATCAGAGCTTAA 1862
QY 1261 AGCATTTAATTAATGATCTGCAAAAGTGTCTTTTCTGCTGAGTGGCAAAAGCC 1320
Db 1863 AGCATTTAATTAATGATCTGCAAAAGTGTCTTTTCTGCTGAGTGGCAAAAGCC 1922
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Db 1923 ATTAATGATCAATCCAGATGGAATTTGCACTCCGATCAATCAGAGAAAGATGTT 1982
QY 1381 GAGACTTTGCAAGGTAATAAAACAATTGCAACCAAAAGATTTTGGCAAGATC 1440
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QY 1441 CCGGAAATGGCTACTGCGAGTGCAGACTGCTTAAAGGGGGAACAATGAAATCTCCG 1500
Db 2043 CCGGAAATGGCTACTGCGAGTGCAGACTGCTTAAAGGGGGAACAATGAAATCTCCG 2102

RESULT 4

US-09-949-016-2812
; Sequence 2812 Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA

ORGANISM: Human
US-09-949-016-2812

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCAATACAGAGGAGGAAAAATGAACTCGACCTCCGCTGACCTGGAGAGAAAAATG 60
Db 2117 AGGTCAATACAGAGGAGGAAAAATGAACTCGACCTCCGCTGACCTGGAGAGAAAAATG 2176
QY 61 ATGAAACCTTTGAAAAGTCTCAAGAACTTCAAGAGCCACGATAGACTGACCTCAAGC 120
Db 2177 ATGAAACCTTTGAAAAGTCTCCGGAACCTTCAAGAGCCACGATAGACTGACCTCAAGC 2236
QY 121 TGCGCAAGCTGAGGTGATCAAGGAACTCGGAGCCCGTGGGGAATCTCTCAATTGACT 180
Db 2237 TGCGCAAGCTGAGGTGATCAAGGAACTCGGAGCCCGTGGGGAATCTCTCAATTGACT 2296
QY 181 CTCTCAAGATCACCTCGAGAAAGTCAAGGACCTTCAGAGAAATTCGACCTCTGAAAG 240
Db 2297 CTCTCAAGATCACCTCGAGAAAGTCAAGGACCTTCAGAGAAATTCGACCTCTGAAAG 2356
QY 241 AGAAGTGAAGCAAGTGAATGACCTTGTCTGCAAGCTTCACTTTGGGCAATCACTCT 300
Db 2357 AGAAGTGAAGCAAGTGAATGACCTTGTCTGCAAGCTTCACTTTGGGCAATCACTCT 2416
QY 301 CACCGTAACTCTGAGCACTCTGAAAGACCTGAAACACAGATGGAAGCTTTCGACAGTGG 360
Db 2417 CACCGTAACTCTGAGCACTCTGAAAGACCTGAAACACAGATGGAAGCTTTCGACAGTGG 2476
QY 361 CCGTGAAGACCGAAGTCAAGGACCTGATGAAAGCCACAGGAATGGAAGCTTTCGACAGTGG 420
Db 2477 CCGTGAAGACCGAAGTCAAGGACCTGATGAAAGCCACAGGAATGGAAGCTTTCGACAGTGG 2536
QY 421 AGCATTTCTTTCACAGTCTGTCAGAGTCCCTGGGAGAGAGCAATCTGCAAAACAAG 480
Db 2537 AGCATTTCTTTCACAGTCTGTCAGAGTCCCTGGGAGAGAGCAATCTGCAAAACAAG 2596
QY 481 TGCCCTAATATGATCAACACAGAGACTCAAAACAATCTGCGGACCAATCCAAATGACAG 540
Db 2597 TGCCCTAATATGATCAACACAGAGACTCAAAACAATCTGCGGACCAATCCAAATGACAG 2656
QY 541 AGCTTACAGTCTTAAAGCTGACCTGAATATGATGATCTTCACTTATATGATGATGCA 600
Db 2657 AGCTTACAGTCTTAAAGCTGACCTGAATATGATGATCTTCACTTATATGATGATGCA 2716
QY 601 TGAATCTCGAAAGATGCAAGAGGCTTTGCTTGGATCTTGAAGCTGTCAGCTGCAT 660
Db 2717 TGAATCTCGAAAGATGCAAGAGGCTTTGCTTGGATCTTGAAGCTGTCAGCTGCAT 2776
QY 661 GTGATGCTTGGACAGACCAACCTCAAGCAAAATGACCAAGCCATGATATCTGACGA 720
Db 2777 GTGATGCTTGGACAGACCAACCTCAAGCAAAATGACCAAGCCATGATATCTGACGA 2836
QY 721 TTATTAATTTGTTGACCACTATTATGACCCCTGAGACAGAGACAACAATTTGGTCA 780
Db 2837 TTATTAATTTGTTGACCACTATTATGACCCCTGAGACAGAGACAACAATTTGGTCA 2896
QY 781 ACGTCCCTCTCGGTGGAATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTCGGTGGAATATGTCTGAACTGGCTGCTGAATGTTATGATACGGGAC 2956
QY 841 GAACAGGAGAGATCCGTGCTCTCTTTTAAACCTGGATCAATTCCTGTGTAACAC 900
Db 2957 GAACAGGAGAGATCCGTGCTCTCTTTTAAACCTGGATCAATTCCTGTGTAACAC 3016
QY 901 ATTGGAAGCAAGTACAGATCACTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 960
Db 3017 ATTGGAAGCAAGTACAGATCACTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 3076
QY 961 ACCAGCGAGGCTGGGCTCCTCTGATGATTTCAATTCCAAGCAAGTTGGGTTG 1020

Db 3077 ACCAGCGAGGCTGGGCTCTCTCTGATGATCTGATCCAAATTCCAAAGACAGTTGGGTG 3136
Qy 1021 AAGTTGCATCTTTGGGGGAGTAACATTTAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 1080
Db 3137 AAGTTGCATCTTTGGGGGAGTAACATTTAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 3136
Qy 1081 CTAAATTAATGAGCCAGAGATGAGAGCGGCGCTCTTCTCTGAGCTGATGAGATGGAACCC 1140
Db 3197 CTAAATTAATGAGCCAGAGATGAGAGCGGCGCTCTTCTCTGAGCTGATGAGATGGAACCC 3256
Qy 1141 AGTCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGCAAGAACTGCCAAGATC 1200
Db 3257 AGTCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGCAAGAACTGCCAAGATC 3316
Qy 1201 AGGCCAAATGTAACATCTGCAAGAGTGTCCAAATCTTGGATTCAGGTACAGAGTCTTA 1260
Db 3317 AGGCCAAATGTAACATCTGCAAGAGTGTCCAAATCTTGGATTCAGGTACAGAGTCTTA 3376
Qy 1261 AGCATTTAATTAATGACATCTGCCAAAGCTGTTTTTTCTGCTGAGTTGCAAAAGGCC 1320
Db 3377 AGCATTTAATTAATGACATCTGCCAAAGCTGTTTTTTCTGCTGAGTTGCAAAAGGCC 3436
Qy 1321 ATAAATGCACTATCCCATGTGTGAAATTTGCACTCCGACTACATCAGAGAAAGATGTT 1380
Db 3437 ATAAATGCACTATCCCATGTGTGAAATTTGCACTCCGACTACATCAGAGAAAGATGTT 3496
Qy 1381 GAGACTTTGCCAGAGTACTTAAAAACAATTTCCAAACCAAAAGTATTTTGGCAAGATC 1440
Db 3497 GAGACTTTGCCAGAGTACTTAAAAACAATTTCCAAACCAAAAGTATTTTGGCAAGATC 3556
Qy 1441 CCCGAATGGGCTACTGCTGCAAGAGTGTCTTAAGAGGGGAGCAACATGGAACTCCCG 1500
Db 3557 CCCGAATGGGCTACTGCTGCAAGAGTGTCTTAAGAGGGGAGCAACATGGAACTCCCG 3616

RESULT 5

US-09-949-016-2813
Sequence 2813, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2813
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2813

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 AGGTCAATCTGATGGGAAAAATTTGAACCTGACTCCGCTGACTGCGAGAGAAAAATAG 60
Db 2117 AGGTCAATCTGATGGGAAAAATTTGAACCTGACTCCGCTGACTGCGAGAGAAAAATAG 2176
Qy 61 ATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCACGAGTATGAGTCACTCAAGC 120
Db 2177 ATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCACGAGTATGAGTCACTCAAGC 2236
Qy 121 TGCGCAAGCTGAGGTATCAAGGATCTGCGAGCCGTGGGCGATCTCCCTATTGACT 180

Db 2237 TGCGCAAGCTGAGGTATCAAGGATCTGCGAGCCGTGGGCGATCTCCCTATTGACT 2296
Qy 181 CTCTCAAGATCACTGAGAAAGTCAAGGACCTTCCAGAGAAATTCGGCTCTGAAAG 240
Db 2297 CTCTCAAGATCACTGAGAAAGTCAAGGACCTTCCAGAGAAATTCGGCTCTGAAAG 2356
Qy 241 AGAAGTGAAGCAGTCAATGACCTTGTCCGAGCTTACCACTTTGGGCAATTGAGCTCT 300
Db 2357 AGAAGTGAAGCAGTCAATGACCTTGTCCGAGCTTACCACTTTGGGCAATTGAGCTCT 2416
Qy 301 CACCGTAACTTCAGACCTCTGGAAGACCTGAACACAGATGGAAGCTTCTGAGGTGG 360
Db 2417 CACCGTAACTTCAGACCTCTGGAAGACCTGAACACAGATGGAAGCTTCTGAGGTGG 2476
Qy 361 CCGTGAAGACCGAGTCAAGGACCTGCAAGAGCCACAGGACCTTTGTCCAGATCTC 420
Db 2477 CCGTGAAGACCGAGTCAAGGACCTGCAAGAGCCACAGGACCTTTGTCCAGATCTC 2536
Qy 421 AGCATTTCTTTTCAAGCTGTCTCCAGGGGTCCCTGGAGAGAGCCATCTGCGCAACAAAG 480
Db 2537 AGCATTTCTTTTCAAGCTGTCTCCAGGGGTCCCTGGAGAGAGCCATCTGCGCAACAAAG 2596
Qy 481 TGCCCTAATATGACACGAGACCTCAACCACTTGTGAGACATCTCCAAATGACAG 540
Db 2597 TGCCCTAATATGACACGAGACCTCAACCACTTGTGAGACATCTCCAAATGACAG 2656
Qy 541 AGCTTCAACAGCTTTTACCTGACCTGAATATGTCAGATTTCACTTATAGACTGCA 600
Db 2657 AGCTTCAACAGCTTTTACCTGACCTGAATATGTCAGATTTCACTTATAGACTGCA 2716
Qy 601 TGAAATCCGAGACCTGAGAGAGCCCTTGTCTGATCTCTTGAAGCTGTCAAGTGCAT 660
Db 2717 TGAAATCCGAGACCTGAGAGAGCCCTTGTCTGATCTCTTGAAGCTGTCAAGTGCAT 2776
Qy 661 GTGATGCTTGGACAGACCAACTCAAGCAAAATGACAGCCCATGATATCTGACAG 720
Db 2777 GTGATGCTTGGACAGACCAACTCAAGCAAAATGACAGCCCATGATATCTGACAG 2836
Qy 721 TTATTAATTTGTTTACCACTTATTAATGACCGGCTGAGACAGACCAAAATTTGTC 780
Db 2837 TTATTAATTTGTTTACCACTTATTAATGACCGGCTGAGACAGACCAAAATTTGTC 2896
Qy 781 ACGTCCCTCTGAGTGAATATGTCGACCTGCTGATGATGATGATGATGATGATGATG 840
Db 2897 ACGTCCCTCTGAGTGAATATGTCGACCTGCTGATGATGATGATGATGATGATGATG 2956
Qy 841 GAAAGGAGAGATCCGTCTCTCTCTTTTAAACTGACATATTTCCCTGTGTAAGCAC 900
Db 2957 GAAAGGAGAGATCCGTCTCTCTCTTTTAAACTGACATATTTCCCTGTGTAAGCAC 3016
Qy 901 ATTGGAAGACAGTACAGATACCTTTTCAAGAGTGGCAAGTTTCAACAGAGATTTGTG 960
Db 3017 ATTGGAAGACAGTACAGATACCTTTTCAAGAGTGGCAAGTTTCAACAGAGATTTGTG 3076
Qy 961 ACCAGCGAGGCTGGGCTCTCTGATGATGATGATGATGATGATGATGATGATGATG 1020
Db 3077 ACCAGCGAGGCTGGGCTCTCTGATGATGATGATGATGATGATGATGATGATGATG 3136
Qy 1021 AAGTTGCATCTTTGGGGGAGTAACATTTAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 1080
Db 3137 AAGTTGCATCTTTGGGGGAGTAACATTTAGCCAAAGTGTCCGAGCTGCTTCCAAATTTG 3196
Qy 1081 CTAAATTAATGAGCCAGAGATGAGAGCGGCGCTCTCTGAGCTGATGAGATGGAACCC 1140
Db 3197 CTAAATTAATGAGCCAGAGATGAGAGCGGCGCTCTCTGAGCTGATGAGATGGAACCC 3256
Qy 1141 AGTCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGCAAGAACTGCCAAGATC 1200
Db 3257 AGTCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGCAAGAACTGCCAAGATC 3316
Qy 1201 AGGCCAAATGTAACATCTGCAAGAGTGTCCAAATCTTGGATTCAGGTACAGAGTCTTA 1260

Db 3317 AGGCCAATGTAACATCTGCAAGAGTGTCCATCATTTGATTCAGGTAACAGACTTAA 3376
Qy 1261 AGCACTTAATTAAGACATCTGCCAAGCTGCTTTTCTTGCTGAGTTGCAAAAGGCC 1320
Db 3377 AGCACTTAATTAAGACATCTGCCAAGCTGCTTTTCTTGCTGAGTTGCAAAAGGCC 3436
Qy 1321 ATAAATGCACTATCCCATGCTGATGATTTGCACTCCGACTCAATCAGGAAAGATGTC 1380
Db 3437 ATAAATGCACTATCCCATGCTGATGATTTGCACTCCGACTCAATCAGGAAAGATGTC 3496
Qy 1381 GAGACTTGGCAAGCTACTATAAAACAAATTTGCAACCAAAAGGTAATTTTGGCAGACATC 1440
Db 3497 GAGACTTGGCAAGCTACTATAAAACAAATTTGCAACCAAAAGGTAATTTTGGCAGACATC 3556
Qy 1441 CCCGAATGGGCTACTGCTGCAAGCTGCTCTTAAGAGGGGGCAACATGGAACCTCCCG 1500
Db 3557 CCCGAATGGGCTACTGCTGCAAGCTGCTCTTAAGAGGGGGCAACATGGAACCTCCCG 3616

RESULT 6

US-09-949-016-2814
Sequence 2814, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2814
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2814

Query Match 99.8% Score 1498 4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGGTCAATGAGTGGGAAAAATTGAACCTGCACTCCGCTGAGCTGSCAGAGAAAAATAG 60
Db 2117 AGGTCAATGAGTGGGAAAAATTGAACCTGCACTCCGCTGAGCTGSCAGAGAAAAATAG 2176
Qy 61 ATGAGACCCCTGGAAGACTCCAGGAACCTTCAAGAGGCGACGATGAGTGAACCTCAAGC 120
Db 2177 ATGAGACCCCTGGAAGACTCCGGAACCTTCAAGAGGCGACGATGAGTGAACCTCAAGC 2236
Qy 121 TGGCCCAAGCTGAGTATCAAGGATCTGCGAGCCGCTGGCGGATCTCTCATTTAGCT 180
Db 2237 TGGCCCAAGCTGAGTATCAAGGATCTGCGAGCCGCTGGCGGATCTCTCATTTAGCT 2296
Qy 181 CTCTCCAAGATCACTGGAAGAAAGTCAAGCACTTGGAGGAAATTTGGCCTCTGAAAG 240
Db 2297 CTCTCCAAGATCACTGGAAGAAAGTCAAGCACTTGGAGGAAATTTGGCCTCTGAAAG 2356
Qy 241 AGAAGCTGAGCACTGCAATGACTTGTCTGCGAGCTTCACTTTGGGCAATTCAGCTTC 300
Db 2357 AGAAGCTGAGCACTGCAATGACTTGTCTGCGAGCTTCACTTTGGGCAATTCAGCTTC 2416
Qy 301 CACCGTATTAACCTCAGCACTCTTGAAGACCTTGAACAACAGATGAAAGCTTCTGCAAGTGG 360
Db 2417 CACCGTATTAACCTCAGCACTCTTGAAGACCTTGAACAACAGATGAAAGCTTCTGCAAGTGG 2476
Qy 361 CCGTCCAGGACCGAGTCAAGGAGCTGCAATGAAGCCCAAGGAACTTTGGTCCAGCATCTC 420

Db 2477 CCGTCCAGGACCGAGTCAAGGAGCTGCAATGAAGCCCAAGGAACTTTGGTCCAGCATCTC 2536
Qy 421 AGCACTTTCTTTCCAGCTGCTGCAAGGCTCCCTGGAGAGAGCCATCTGCCAAACAAAG 480
Db 2537 AGCACTTTCTTTCCAGCTGCTGCAAGGCTCCCTGGAGAGAGCCATCTGCCAAACAAAG 2596
Qy 481 TGGCCCTATATCAACCAAGAGCTCAAAACATCTGAGGACATCCCAAAATGACAG 540
Db 2597 TGGCCCTATATCAACCAAGAGCTCAAAACATCTGAGGACATCCCAAAATGACAG 2656
Qy 541 AGCTTCAAGCTTTTATGCTGACCTGAAATATGTCAGATTTCTAGCTTATAGACTGCCA 600
Db 2657 AGCTTCAAGCTTTTATGCTGACCTGAAATATGTCAGATTTCTAGCTTATAGACTGCCA 2716
Qy 601 TGAATCTCCGAAGCTGCAAGAGGCTTTGCTTGGATCTCTTGAAGCTGCTGAGTGCAT 660
Db 2717 TGAATCTCCGAAGCTGCAAGAGGCTTTGCTTGGATCTCTTGAAGCTGCTGAGTGCAT 2776
Qy 661 GTGATGCTTGGACAGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGACAG 720
Db 2777 GTGATGCTTGGACAGACCAACCTCAAGCAAAATGACAGCCCATGATATCTGACAG 2836
Qy 721 TTATTAATTTGTTGACCACTAATTTATGACCGCTGAGAGACAGCAACAATTTGCTCA 780
Db 2837 TTATTAATTTGTTGACCACTAATTTATGACCGCTGAGAGACAGCAACAATTTGCTCA 2896
Qy 781 AGCTCCCTCTCTGCTGATATGTCGTAACCTGCTGATGATTTTATGATAGGAGAC 840
Db 2897 AGCTCCCTCTCTGCTGATATGTCGTAACCTGCTGATGATTTTATGATAGGAGAC 2956
Qy 841 GAAACAGGAGAGTCCGCTGCTGCTTTTAAACCTGACATCAATTTCCCTGTGTAAGCAC 900
Db 2957 GAAACAGGAGAGTCCGCTGCTGCTTTTAAACCTGACATCAATTTCCCTGTGTAAGCAC 3016
Qy 901 ATTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTCAACAGAAATTTGTC 960
Db 3017 ATTGGAAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTCAACAGAAATTTGTC 3076
Qy 961 ACCAGGCGAGGCTGGGCTCTCTTCTGCAATGATCTATCAAAATTCGAAGAGTGGGTC 1020
Db 3077 ACCAGGCGAGGCTGGGCTCTCTTCTGCAATGATCTATCAAAATTCGAAGAGTGGGTC 3126
Qy 1021 AAGTTCATCTCTTGGGGGAGTACATTGAGCGCAAGTCCGAGAGCTTCCAAATTTG 1080
Db 3137 AAGTTCATCTCTTGGGGGAGTACATTGAGCGCAAGTCCGAGAGCTTCCAAATTTG 3196
Qy 1081 CTAAATTAAGCAGAGATCAAGGCGCTCTTCTGATGATGAGCTGGAACCC 1140
Db 3197 CTAAATTAAGCAGAGATCAAGGCGCTCTTCTGATGATGAGCTGGAACCC 3256
Qy 1141 AGTCCATGCTGCTGCGCTCCGCTCCGCAACAGAGTCTGCTGCGAACAATCCCAAGATC 1200
Db 3257 AGTCCATGCTGCTGCGCTCCGCTCCGCAACAGAGTCTGCTGCGAACAATCCCAAGATC 3316
Qy 1201 AGGCCAAATGTAACATCTGCAAGAGTGTCCAATCATTTGATTCAGGTAACAGAGTTAA 1260
Db 3317 AGGCCAAATGTAACATCTGCAAGAGTGTCCAATCATTTGATTCAGGTAACAGAGTTAA 3376
Qy 1261 AGCACTTAATTAAGACATCTGCCAAGCTGCTTTTCTTGCTGAGTTGCAAAAGGCC 1320
Db 3377 AGCACTTAATTAAGACATCTGCCAAGCTGCTTTTCTTGCTGAGTTGCAAAAGGCC 3436
Qy 1321 ATAAATGCACTATCCCATGCTGATGATTTGCACTCCGACTCAATCAGGAAAGATGTC 1380
Db 3437 ATAAATGCACTATCCCATGCTGATGATTTGCACTCCGACTCAATCAGGAAAGATGTC 3496
Qy 1381 GAGACTTGGCAAGCTACTATAAAACAAATTTGCAACCAAAAGGTAATTTTGGCAGACATC 1440
Db 3497 GAGACTTGGCAAGCTACTATAAAACAAATTTGCAACCAAAAGGTAATTTTGGCAGACATC 3556
Qy 1441 CCCGAATGGGCTACTGCTGCAAGCTGCTCTTAAGAGGGGCAACATGGAACCTCCCG 1500

Db 3557 CCCGAATGGCTACCTGCGAGTGCAGACTGTCTTAGAGGGGCAACAATGAAACTCCCG 3616

RESULT 7
US-09-949-016-2815
; Sequence 2815, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 2815
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2815

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGGAGAAATAATAG 60
Db 2117 AGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGGAGAAATAATAG 2156

QY 61 ATGAGACCTTGAAGAATCCAGGAATCTCAAGAGGCCAGATGAGCTGAGCCTCAAGC 120
Db 2177 ATGAGACCTTGAAGAATCCGAGGAATCTCAAGAGGCCAGATGAGCTGAGCCTCAAGC 2236

QY 121 TGGCCCAAGCTGAGTGTATCAAGGAGTCTGGCAGCCCTGGGAGATCTCTCATTTGACT 180
Db 2237 TGGCCCAAGCTGAGTGTATCAAGGAGTCTGGCAGCCCTGGGAGATCTCTCATTTGACT 2236

QY 181 CTCTCCCAAGTCACTGAGAAAGTCAAGGAGCTTCGAGAGAAATTGCGGCTCTGAAG 240
Db 2297 CTCTCCCAAGTCACTGAGAAAGTCAAGGAGCTTCGAGAGAAATTGCGGCTCTGAAG 2356

QY 241 AGAAGTGAAGCAGTCAATGACCTTGGCCAGCTTACCATTTGGGATTTGAGCTCT 300
Db 2357 AGAAGTGAAGCAGTCAATGACCTTGGCCAGCTTACCATTTGGGATTTGAGCTCT 2416

QY 301 CACCGTATTAATCTGAGCACTCTGGAAGACTGAACACCAAGATGAAAGCTTGTGAGGTG 360
Db 2417 CACCGTATTAATCTGAGCACTCTGGAAGACTGAACACCAAGATGAAAGCTTGTGAGGTG 2476

QY 361 CCGTCGAGAGCCGAGTCAAGGAGTGTGAGAGCCCAAGGAGCTTTGGTCCAGATCTC 420
Db 2477 CCGTCGAGAGCCGAGTCAAGGAGTGTGAGAGCCCAAGGAGCTTTGGTCCAGATCTC 2536

QY 421 AGCACTTTCTTTCACAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAAAAG 480
Db 2537 AGCACTTTCTTTCACAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAAAAG 2536

QY 481 TGGCTTACTATATCAACGAGAGCTCAACCACTTGTGTGAGACATCCAAAATGACAG 540
Db 2597 TGGCTTACTATATCAACGAGAGCTCAACCACTTGTGTGAGACATCCAAAATGACAG 2656

QY 541 AGCTTACCAAGCTTTTGGTGAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 600
Db 2657 AGCTTACCAAGCTTTTGGTGAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 2716

QY 601 TGAATCTCCGAAGCTGAGAGAGCCCTTTGCTTGGATCTCTTGAAGCTGTGAGCTGAT 660

Db 3717 TGAATCTCCGAAGCTGAGAGAGCCCTTTGCTTGGATCTCTTGAAGCTGTGAGCTGAT 2776

QY 661 GTGATGCTTGGAGCAGACAGAACTCAAGCAAAATGACAGCCAGTGAATATCTGACAGA 720
Db 2777 GTGATGCTTGGAGCAGACAGAACTCAAGCAAAATGACAGCCAGTGAATATCTGACAGA 2836

QY 721 TTATTAATTTGTTTACCACTATTTATGACCGCTGAGAGCAAGACACAACAATTTGTCA 780
Db 2837 TTATTAATTTGTTTACCACTATTTATGACCGCTGAGAGCAAGACACAACAATTTGTCA 2896

QY 781 AGCTCCCTCTCTGCTGAGATATGTGTGAACTGAGCTGCTGAATGTTTATATACGGGAC 840
Db 2897 AGCTCCCTCTCTGCTGAGATATGTGTGAACTGAGCTGCTGAATGTTTATATACGGGAC 2956

QY 841 GAAAGAGGAGATCCGTCCTCTCTTAAACATGAGATATTTCCCTGTGTAAGGAC 900
Db 2957 GAAAGAGGAGATCCGTCCTCTCTTAAACATGAGATATTTCCCTGTGTAAGGAC 3016

QY 901 ATTGGAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 960
Db 3017 ATTGGAAGACAAATACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTG 3076

QY 961 ACCAGCGAGGCTGGGCTCTTCTGCAATGATTTTATCCAAATTCGAAGACATTTGGTG 1020
Db 3077 ACCAGCGAGGCTGGGCTCTTCTGCAATGATTTTATCCAAATTCGAAGACATTTGGTG 3136

QY 1021 AAGTTGATCTTTTGGGGGAGTAACATTTGAGCAAGTGGTCCGAGCTCTTCAATTTG 1080
Db 3137 AAGTTGATCTTTTGGGGGAGTAACATTTGAGCAAGTGGTCCGAGCTCTTCAATTTG 3196

QY 1081 CTAATTAATTAAGCCAGATTCGAAGCGGCTCTTCTTGAAGTGTGATGAGATGGAACCC 1140
Db 3197 CTAATTAATTAAGCCAGATTCGAAGCGGCTCTTCTTGAAGTGTGATGAGATGGAACCC 3256

QY 1141 AGTCATGCTGTGGCTGCTGCTGCTGCAAGAGTGGCTGCTGCAAGAACTGCCAAGCATC 1200
Db 3257 AGTCATGCTGTGGCTGCTGCTGCTGCAAGAGTGGCTGCTGCAAGAACTGCCAAGCATC 3316

QY 1201 AGGCAAAATGTAATCTGCAAGAGTGTCCAACTGATTTGAGTGAAGAGAGTCTAA 1260
Db 3317 AGGCAAAATGTAATCTGCAAGAGTGTCCAACTGATTTGAGTGAAGAGAGTCTAA 3376

QY 1261 AGCACTTAATTAATGATCTGCAAGAGCTTTTCTTGTGAGTGTGCAAGAGCC 1320
Db 3377 AGCACTTAATTAATGATCTGCAAGAGCTTTTCTTGTGAGTGTGCAAGAGCC 3436

QY 1321 ATAAATGCACTATCCAGTGTGAAATATGCTCCGACTACATCAAGAGAGATGTTG 1380
Db 3437 ATAAATGCACTATCCAGTGTGAAATATGCTCCGACTACATCAAGAGAGATGTTG 3496

QY 1381 GAGACTTTGCGCAAGTACTAAAAAACAATTTGGAACCAAAAGTATTTTCCGAAGCTC 1440
Db 3497 GAGACTTTGCGCAAGTACTAAAAAACAATTTGGAACCAAAAGTATTTTCCGAAGCTC 3556

QY 1441 CCGGAATGGGCTACTGCGAGTGCAGACTGTCTTAGAGGGGAGACAATGAAATCTCCG 1500
Db 3557 CCGGAATGGGCTACTGCGAGTGCAGACTGTCTTAGAGGGGAGACAATGAAATCTCCG 3616

RESULT 8
US-09-949-016-2816
; Sequence 2816, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

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? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/731,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO: 2816
? LENGTH: 7109
? TYPE: DNA
? ORGANISM: Human
JS-09-949-016-2816

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Query Match	99.8%	Score 1498.4	DB 4	Length 7109
Best Local Similarity	99.9%	Pred. NO. 0		
Matches 1499, Conservative	0	Mismatches 1	Indels 0	Gaps 0

QY	1	AGGCAATCTAGTGGGAAAAATTGAACCTGCACCTCGCGTGACTGGCAGAGAAAAATAG	60
Db	2117	AGGCAATCTAGTGGGAAAAATTGAACCTGCACCTCGCGTGACTGGCAGAGAAAAATAG	2176
QY	61	ATGAGACCCCTGAAAAGCTCAGAGAACTTCAAGAGGCCAGATGAGCTGCACCTCAAGC	120
Db	2177	ATGAGACCCCTGAAAAGCTCAGAGAACTTCAAGAGGCCAGATGAGCTGCACCTCAAGC	2236
QY	121	TGGGCCAAGCTGAGGTGATCAAGGATTCCTGGCAGCCGTGGGCCATCTCTCATTTGACT	180
Db	2237	TGGGCCAAGCTGAGGTGATCAAGGATTCCTGGCAGCCGTGGGCCATCTCTCATTTGACT	2296
QY	181	CTCTCCAAAGTCACCTCGAGAAAGTCAGAGGCACTTCAGAGAAATTGCGCTCTGAAG	240
Db	2297	CTCTCCAAATCACTTCAGAAAGTCAGAGGCACTTCAGAGAAATTGCGCTCTGAAG	2356
QY	241	AGAACCTGAGCCACGTCAATGACCTTGCTCGCAGCTTACACATTTGGGCAATTCAGCTCT	300
Db	2357	AGAACCTGAGCCACGTCAATGACCTTGCTCGCAGCTTACACATTTGGGCAATTCAGCTCT	2416
QY	301	CACCGATATACCTCGACACTCGAGAAACCTGAAACCACTGATGGAAGCTTCTGCAAGTGG	360
Db	2417	CACCGATATACCTCGACACTCTGAGAAACCTGAAACCACTGATGGAAGCTTCTGCAAGTGG	2476
QY	361	CCGTGAGAGACCGAGTCAAGGACGTGATGAAAGCCACAGGACCTTTGGTTCAGACATCTC	420
Db	2477	CCGTGAGAGACCGAGTCAAGGACGTGATGAAAGCCACAGGACCTTTGGTTCAGACATCTC	2536
QY	421	AGCATTTTCTTTCCAGGCTGTGCCAGGGTCCCTTGGAGAGAGCCATTTGCGCAACAAAG	480
Db	2537	AGCATTTTCTTTCCAGGCTGTGCCAGGGTCCCTTGGAGAGAGCCATTTGCGCAACAAAG	2596
QY	481	TGCCCTATATATCAACCCAGAGACTCAACCTTCTCTGGAGCAATCCCAAAATGACAG	540
Db	2597	TGCCCTATATATCAACCCAGAGACTCAACCTTCTCTGGAGCAATCCCAAAATGACAG	2656
QY	541	AGCTTACCAAGCTTTAGCTGACCTGAAATATGTCAATTTCACTTATAGGACTGCCA	600
Db	2657	AGCTTACCAAGCTTTAGCTGACCTGAAATATGTCAATTTCACTTATAGGACTGCCA	2716
QY	601	TGAAACTCCGAGACTCAGAGAGGCCCTTTGGCTTGGATCTCTTGAACCTGTCAAGCTGAT	660
Db	2717	TGAAACTCCGAGACTCAGAGAGGCCCTTTGGCTTGGATCTCTTGAACCTGTCAAGCTGAT	2776
QY	661	GTGATGCTTGGACACAGCAACTCAAGCAAAATGACAGCCCATGATATCTGCAGA	720
Db	2777	GTGATGCTTGGACACAGCAACTCAAGCAAAATGACAGCCCATGATATCTGCAGA	2836
QY	721	TTATTAATTTGTCACCAATTTATGACCGGCTGAGAGAAAGACCAATTTGGTCA	780
Db	2837	TTATTAATTTGTCACCAATTTATGACCGGCTGAGAGAAAGACCAATTTGGTCA	2896
QY	781	ACGTCCCTCTCTGCGTGGATATGTGTGAACCTGGCTGATGTTTATGATACGGAGC	840
Db	2897	ACGTCCCTCTCTGCGTGGATATGTGTGAACCTGGCTGATGTTTATGATACGGAGC	2956
QY	841	GAACGAGGAGATCCGATGCTGTCTTTTAAACTGGCATCAATTTCCCTGTGTAAGCAC	900

Db	2957	GAACGAGGAGGATCCGTGCTCTGCTCTTTTAAACAGGCACTATTTCCCTGGTAAAGCAC	3016
Qy	901	ATTTGGAAACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAAATTTG	960
Db	3017	ATTTGGAAACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAAATTTG	3076
Qy	961	ACCAGGCGAGGCTGGGCGCTCCCTTCGCAATGATTCATCCAAATTCGAAAGACGTTGGGTG	1020
Db	3077	ACCAGGCGAGGCTGGGCGCTCCCTTCGCAATGATTCATCCAAATTCGAAAGACGTTGGGTG	3136
Qy	1021	AAGTTGCATCTTTGGGGGCAAGTACATTTGAGCCAAAGTGCAGAGCTGCTCCAAATTTG	1080
Db	3137	AAGTTGCATCTTTGGGGGCAAGTACATTTGAGCCAAAGTGCAGAGCTGCTCCAAATTTG	3196
Qy	1081	CTAATATATAGCGAGAGTTCGAACGGGCGCTTCTCTAGACTGTATAGACTGAAACCC	1140
Db	3197	CTAATATATAGCGAGAGTTCGAACGGGCGCTTCTCTAGACTGTATAGACTGAAACCC	3256
Qy	1141	AGTCATGATGTGGCTGCCCTCTCTGCAAGAGTGGCTGCGAGAACTGCCAAGATC	1200
Db	3257	AGTCATGATGTGGCTGCCCTCTCTGCAAGAGTGGCTGCGAGAACTGCCAAGATC	3316
Qy	1201	AGGCGAAATGTAAATCTGCAAGAGTGTCAATCAATTTGATTCAGAGTACAGAGTCTAA	1260
Db	3317	AGGCGAAATGTAAATCTGCAAGAGTGTCAATCAATTTGATTCAGAGTACAGAGTCTAA	3376
Qy	1261	AGCATTTAATTTAGACATCTGCCAAAGCTGCTTTTTCCTGGTGGAGTTGCAAAAGGCG	1320
Db	3377	AGCATTTAATTTAGACATCTGCCAAAGCTGCTTTTTCCTGGTGGAGTTGCAAAAGGCG	3436
Qy	1321	ATTAATAAGCATATCCCATGTGGAAATATTGCATCCGACTACATCAGAGAGATGTTTC	1380
Db	3437	ATTAATAAGCATATCCCATGTGGAAATATTGCATCCGACTACATCAGAGAGATGTTTC	3496
Qy	1381	GAGACTTTGGCAAGTACTTAAATAACAATTTGAGACCAAAAGGTATTTTGGAAAGCATC	1440
Db	3497	GAGACTTTGGCAAGTACTTAAATAACAATTTGAGACCAAAAGGTATTTTGGAAAGCATC	3556
Qy	1441	CCCGAATGGGCTACTGCGCAGTGCAGACTGTCTTTAGAGGGGACAAACATGAAATCTCCG	1500
Db	3557	CCCGAATGGGCTACTGCGCAGTGCAGACTGTCTTTAGAGGGGACAAACATGAAATCTCCG	3616

RESULT 9
US-09-949-016-2817
; Sequence 2817, Application US/09949016

```

? APPLICANT: VENTER, J. Craig et al.
? TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
? TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
? FILE REFERENCE: C1001307
? CURRENT APPLICATION NUMBER: US/09/949,016
? PRIOR FILING DATE: 2000-04-14
? PRIOR APPLICATION NUMBER: 60/241,755
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FastSeq for windows Version 4.0
? SEQ ID NO 2817
? LENGTH: 7109
? TYPE: DNA
? ORGANISM: Human
? US-09-949-016-2817

```

Query Match	99.8%	Score 1498.4;	DB 4;	Length 7109;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1499; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0

QY 1 AGCTCAATCTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGGTCAATATCTGATGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCTTTGAAAGACTCCAGAACTTCAAGGCGCAAGATAGCTGGAACCTCAAGC 120
Db 2177 ATGAGACCTTTGAAAGACTCCGAGAACTTCAAGGCGCAAGATAGCTGGAACCTCAAGC 2236
QY 121 TGGCCCAAGCTGAGGTATCAAGGATCTGGCAGCCCGTGGGGATCTCTCAATTGACT 180
Db 2237 TGGCCCAAGCTGAGGTATCAAGGATCTGGCAGCCCGTGGGGATCTCTCAATTGACT 2236
QY 181 CTCTCAAGATCACTCTGAGAAAGTCAAGGCACTTCCAGAGAAATTGCGCTCTGAAG 240
Db 2297 CTCTCAAGATCACTCTGAGAAAGTCAAGGCACTTCCAGAGAAATTGCGCTCTGAAG 2356
QY 241 AGAAGTGAAGCAGTCAATGACTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCTCT 300
Db 2357 AGAAGTGAAGCAGTCAATGACTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCTCT 2416
QY 301 CACCGTAACTCTGAGACTCTGAGAACTGAGAACACAGATGAGAGCTTCTGAGGTGG 360
Db 2417 CACCGTAACTCTGAGACTCTGAGAACTGAGAACACAGATGAGAGCTTCTGAGGTGG 2476
QY 361 CCGTCAAGACCGAGTCAAGGCACTGATGAGGCCCAAGGGAATTTGGTCCAGCATCTC 420
Db 2477 CCGTCAAGACCGAGTCAAGGCACTGATGAGGCCCAAGGGAATTTGGTCCAGCATCTC 2536
QY 421 AGCATTTCTTTTCAGCTCTGTCCAGGGGCTCTGGAGAGAGCCATCTCCCAAAACAAG 480
Db 2537 AGCATTTCTTTTCAGCTCTGTCCAGGGGCTCTGGAGAGAGCCATCTCCCAAAACAAG 2596
QY 481 TGGCCTATCTATTAACAAGAGACTCAAAACAATCTGGAGCAATCCCAAAATGACAG 540
Db 2597 TGGCCTATCTATTAACAAGAGACTCAAAACAATCTGGAGCAATCCCAAAATGACAG 2656
QY 541 AGCTCTACAGTCTTTAGCTGACTGACTGATAATGTCAGATTCTCAGCTTAATGAGCTCCA 600
Db 2657 AGCTCTACAGTCTTTAGCTGACTGACTGATAATGTCAGATTCTCAGCTTAATGAGCTCCA 2716
QY 601 TGAACCTCCGAAGACTGAGAGGCGCTTTGCTTGGATCTCTTGAAGCTGTCACTGCAT 660
Db 2717 TGAACCTCCGAAGACTGAGAGGCGCTTTGCTTGGATCTCTTGAAGCTGTCACTGCAT 2776
QY 661 GTATGCTTGGAGACCAACAACCTCAAGCAAAATGACACCCATGATTTCTGACAGA 720
Db 2777 GTATGCTTGGAGACCAACAACCTCAAGCAAAATGACACCCATGATTTCTGACAGA 2836
QY 721 TTATTAATTTGTTGACCACTATTATGACGCGCTGAGCAAGAGACACAACAATTGGTCA 780
Db 2837 TTATTAATTTGTTGACCACTATTATGACGCGCTGAGCAAGAGACACAACAATTGGTCA 2896
QY 781 ACGTCCCTCTCTGCGTGAATATGTGTGTAAGTGGCTGTAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTCTGCGTGAATATGTGTGTAAGTGGCTGTAATGTTATGATACGGGAC 2956
QY 841 GAAACGAGGAGATCCGTGTCTGTCTTTTAAACCTGCAATATTTCCCTGTGTAAAGCAC 900
Db 2957 GAAACGAGGAGATCCGTGTCTGTCTTTTAAACCTGCAATATTTCCCTGTGTAAAGCAC 3016
QY 901 ATTGGAAGACAGATACAGATACCTTTTCAAGAGAGGCAAGTTCACAAGAGATTTTGTG 960
Db 3017 ATTGGAAGACAGATACAGATACCTTTTCAAGAGAGGCAAGTTCACAAGAGATTTTGTG 3076
QY 961 ACCAGCGCAGGCTGGGCTCTCTTCTGCAATATTTATTCAAATTCAGACAGTTGGGTG 1020
Db 3077 ACCAGCGCAGGCTGGGCTCTCTTCTGCAATATTTATTCAAATTCAGACAGTTGGGTG 3136
QY 1021 AAGTTGATCTTTTGGGGGAGTAACATGAGCCAAAGTGTCCGAGGCTGCTTCAATTTG 1080
Db 3137 AAGTTGATCTTTTGGGGGAGTAACATGAGCCAAAGTGTCCGAGGCTGCTTCAATTTG 3196
QY 1081 CTATTAATTAAGCAGATGAGAGCGGCGCTCTTCTTGAAGCTGATGAGATGGAACCC 1140

Db 3197 CTATTAATTAAGCAGATGAGAGCGGCGCTCTTCTTGAAGCTGATGAGATGGAACCC 3256
QY 1141 AGTCAATGCTGTGGCTCCGCTCTGCAAGAGGCGTGGTCAAGAACTGCAAGCATC 1200
Db 3257 AGTCAATGCTGTGGCTCCGCTCTGCAAGAGGCGTGGTCAAGAACTGCAAGCATC 3316
QY 1201 AGGCAATATGATCATCTGCAAGAGAGTGTCCAAATCATTTGATTCAGGTACAGAGTCTAA 1260
Db 3317 AGGCAATATGATCATCTGCAAGAGAGTGTCCAAATCATTTGATTCAGGTACAGAGTCTAA 3376
QY 1261 AGCATTTAATTAATGATCATCTGCAAGAGTGTCTTTTCTGCTGAGTTCGAAAGGCC 1320
Db 3377 AGCATTTAATTAATGATCATCTGCAAGAGTGTCTTTTCTGCTGAGTTCGAAAGGCC 3436
QY 1321 ATAAATGCACTATCCCATGATGAGAAATTTGACATCCGACTACATCAAGAGAAATGTC 1380
Db 3437 ATAAATGCACTATCCCATGATGAGAAATTTGACATCCGACTACATCAAGAGAAATGTC 3496
QY 1381 GAGACTTGGCAAGGTACTTAAACAAATTTGCAACCAAAAGGTATTTTGGAGCATC 1440
Db 3497 GAGACTTGGCAAGGTACTTAAACAAATTTGCAACCAAAAGGTATTTTGGAGCATC 3556
QY 1441 CCCGAATGGGCTACCTGCAAGTGCAGACTGTCTTGAAGGGGACAAATGGAATCTCCG 1500
Db 3557 CCCGAATGGGCTACCTGCAAGTGCAGACTGTCTTGAAGGGGACAAATGGAATCTCCG 3616

RESULT 10
US-09-949-016-2818
; Sequence 2818, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTUR, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2818
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2818

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGTCAATTAAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGGTCAATATCTGATGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCTTTGAAAGACTCCAGAACTTCAAGGCGCAAGATAGCTGGAACCTCAAGC 120
Db 2177 ATGAGACCTTTGAAAGACTCCGAGAACTTCAAGGCGCAAGATAGCTGGAACCTCAAGC 2236
QY 121 TGGCCCAAGCTGAGGTATCAAGGATCTGGCAGCCCGTGGGGATCTCTCAATTGACT 180
Db 2237 TGGCCCAAGCTGAGGTATCAAGGATCTGGCAGCCCGTGGGGATCTCTCAATTGACT 2236
QY 181 CTCTCAAGATCACTCTGAGAAAGTCAAGGCACTTCCAGAGAAATTGCGCTCTGAAG 240
Db 2297 CTCTCAAGATCACTCTGAGAAAGTCAAGGCACTTCCAGAGAAATTGCGCTCTGAAG 2356

QY 241 AGAAGTGAAGCAAGTCATGATGACCTTGGCCAGCTTACCACTTTGGGCAATTCAGCTCT 300
DB 2357 AGAAGTGAAGCAAGTCATGATGACCTTGGCCAGCTTACCACTTTGGGCAATTCAGCTCT 2416
QY 301 CACCGTATACCTTCAGAGACTCTGGAAGACTGAAACACCAAGTGAAGCTTCTGAGAGTGG 360
DB 2417 CACCGTATACCTTCAGAGACTCTGGAAGACTGAAACACCAAGTGAAGCTTCTGAGAGTGG 2476
QY 361 CCGTGAAGACCGAGTCAAGCACTGATGAAGACCCACAGGGGACTTTGGTCCAGCATCTGC 420
DB 2477 CCGTGAAGACCGAGTCAAGCACTGATGAAGACCCACAGGGGACTTTGGTCCAGCATCTGC 2536
QY 421 AGCATCTTCTTTTCCAGCTCTGTCAGAGGTCCCTGGGAGAGAGCCATCTGSCCAACCAAG 480
DB 2537 AGCATCTTCTTTTCCAGCTCTGTCAGAGGTCCCTGGGAGAGAGCCATCTGSCCAACCAAG 2596
QY 481 TGGCCCTACTATATCAACCAAGAGACTCAACCAACTTGGCTGGGACCAATCCCAAAATGACAG 540
DB 2597 TGGCCCTACTATATCAACCAAGAGACTCAACCAACTTGGCTGGGACCAATCCCAAAATGACAG 2656
QY 541 AGCTTACCAAGTCTTTAGCTGACCTGAAATATGTCAGATTTCTGAGCTTATAGAGCTGGCA 600
DB 2657 AGCTTACCAAGTCTTTAGCTGACCTGAAATATGTCAGATTTCTGAGCTTATAGAGCTGGCA 2716
QY 601 TGAAGCTCCGAGAGCTGGAGAGGCCCTTTGCTTGGATCTCTTGAAGCTTTCAGCTGCAT 660
DB 2717 TGAAGCTCCGAGAGCTGGAGAGGCCCTTTGCTTGGATCTCTTGAAGCTTTCAGCTGCAT 2776
QY 661 GTGATGCTTGGAGACCAAGCAACTCAAGCAAAATGACAGCCCATGATATCTTGGCA 720
DB 2777 GTGATGCTTGGAGACCAAGCAACTCAAGCAAAATGACAGCCCATGATATCTTGGCA 2836
QY 721 TTATTAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGACCAAACTTTGGTCA 780
DB 2837 TTATTAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGACCAAACTTTGGTCA 2896
QY 781 ACGTCCCTCTGCGTGAATATGTCGAACTGGCTGCTGAAGCTTATATACGGGAC 840
DB 2897 ACGTCCCTCTGCGTGAATATGTCGAACTGGCTGCTGAAGCTTATATACGGGAC 2956
QY 841 GAAAGGAGAGATCCGTCTGCTTTTAAACTGGCATCATTTCCCTGCTGTTAAACAC 900
DB 2957 GAAAGGAGAGATCCGTCTGCTTTTAAACTGGCATCATTTCCCTGCTGTTAAACAC 3016
QY 901 ATTGGAAGACAAGTACGATCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 960
DB 3017 ATTGGAAGACAAGTACGATCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 3076
QY 961 ACGAGCGAGGCTGGGCTCTCTTCTGATGATTTATCCAAATTCGAAGCAGTGGGTG 1020
DB 3077 ACGAGCGAGGCTGGGCTCTCTTCTGATGATTTATCCAAATTCGAAGCAGTGGGTG 3136
QY 1021 AAGTTGATCTTTTGGGGGAGTAACTTTTCAAGCAAGTGGCAAGTTTCAATTTG 1080
DB 3137 AAGTTGATCTTTTGGGGGAGTAACTTTTCAAGCAAGTGGCAAGTTTCAATTTG 3196
QY 1081 CTATATTAAGCAAGATGAAAGCGGCTCTTCTGAGCTGGAATGAGATCTGAAACCCC 1140
DB 3197 CTATATTAAGCAAGATGAAAGCGGCTCTTCTGAGCTGGAATGAGATCTGAAACCCC 3256
QY 1141 AATTCATGCTGTGGCTGGCTCTGCAAGAGTGGCTGTCAGAACTGTCGAAGCATC 1200
DB 3257 AATTCATGCTGTGGCTGGCTCTGCAAGAGTGGCTGTCAGAACTGTCGAAGCATC 3316
QY 1201 AGGCAAAATGTAATCATCTGCAAGAGTGTCCATTCATTTGATTCAGATACAGAGTCTAA 1260
DB 3317 AGGCAAAATGTAATCATCTGCAAGAGTGTCCATTCATTTGATTCAGATACAGAGTCTAA 3376
QY 1261 AGCATTTTATTAATGACATCTGCAAGAGTGTCTTTTCTGCTGAGTGTGCAAAAGGCTC 1320
DB 3377 AGCATTTTATTAATGACATCTGCAAGAGTGTCTTTTCTGCTGAGTGTGCAAAAGGCTC 3436
QY 1321 ATTAATAATGACATCTGCAAGAGTGTGGAATATTGCACTCCGACTACATCAGAGAAAGTGTTC 1380

DB 3437 ATTAATAATGACATCTGCAAGAGTGTGGAATATTGCACTCCGACTACATTCAGAGAAATGTTC 3496
QY 1381 GAGACTTGGCAAGGTACTTAATAAACAATTTTGGACCAAAAGGTATTTTGGAGCATC 1440
DB 3497 GAGACTTGGCAAGGTACTTAATAAACAATTTTGGACCAAAAGGTATTTTGGAGCATC 3556
QY 1441 CCGGAATGGGCTTACCTGTCAGTGAAGTCTGTTAGAGGGGGGCAACATGGAATCTCCG 1500
DB 3557 CCGGAATGGGCTTACCTGTCAGTGAAGTCTGTTAGAGGGGGGCAACATGGAATCTCCG 3616

RESULT 11
US-09-949-016-2819
Sequence 2819, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2819
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2819

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCAATATCTGAGTGGGAAAAATTGAACCTGCACTCGCTGACTGCGAGAGAAAAATAG 60
DB 2117 AGGTCAATATCTGAGTGGGAAAAATTGAACCTGCACTCGCTGACTGCGAGAGAAAAATAG 2176
QY 61 ATGAGACCTTGAAGATCTCCAGAACTTCAAGAGGCCACGAGTGAAGTCTCAAGC 120
DB 2177 ATGAGACCTTGAAGATCTCCAGAACTTCAAGAGGCCACGAGTGAAGTCTCAAGC 2236
QY 121 TCGGCAAGCTGAGTGAATCAAGGATCTGCGAGCCGCTGGGCGGATCTCTCAATTTGCT 180
DB 2237 TCGGCAAGCTGAGTGAATCAAGGATCTGCGAGCCGCTGGGCGGATCTCTCAATTTGCT 2296
QY 181 CTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTTCAGAGAAATTGCGCTCTGAAG 240
DB 2297 CTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTTCAGAGAAATTGCGCTCTGAAG 2356
QY 241 AGAAGTGAAGCAAGTCAATGACCTTGGCTGGCAGCTTACCACTTTGGGCAATTCAGCTCT 300
DB 2357 AGAAGTGAAGCAAGTCAATGACCTTGGCTGGCAGCTTACCACTTTGGGCAATTCAGCTCT 2416
QY 301 CACCGTATACCTTGAAGCACTTGAAGACCTGAAACACCAAGTGAAGCTTCTGCAAGTGG 360
DB 2417 CACCGTATACCTTGAAGCACTTGAAGACCTGAAACACCAAGTGAAGCTTCTGCAAGTGG 2476
QY 361 CCGTGAAGACCGAGTCAAGCACTGATGAAGACCCACAGGGGACTTTGGTCCAGCATCTGC 420
DB 2477 CCGTGAAGACCGAGTCAAGCACTGATGAAGACCCACAGGGGACTTTGGTCCAGCATCTGC 2536
QY 421 AGCATTTTCTTTTCCAGCTCTGTCAGAGGTCCCTGGGAGAGAGCCATCTGSCCAACCAAG 480
DB 2537 AGCATTTTCTTTTCCAGCTCTGTCAGAGGTCCCTGGGAGAGAGCCATCTGSCCAACCAAG 2596

481 TGCCCTACTATATGCAACCAAGAGCTCAAAACACTTGTGGAGCACCACCAAAATGACAG 540
Db TGCCCTACTATATGCAACCAAGAGCTCAAAACACTTGTGGAGCACCACCAAAATGACAG 2656
QY AGCTTACCAAGCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTTATAGACTGCCA 600
Db AGCTTACCAAGCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTTATAGACTGCCA 2716
QY TGAACCTCCGAAAGCTGAGAAAGGCCCTTGTGCTGAGATCTCTGAGCCCTGACAGCTGAT 660
Db TGAACCTCCGAAAGCTGAGAAAGGCCCTTGTGCTGAGATCTCTGAGCCCTGACAGCTGAT 2776
QY GTGATGCTTGGACAGCAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTCGCAGA 720
Db GTGATGCTTGGACAGCAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTCGCAGA 2836
QY TTATTTAATGTTTGAACCACTATTTATGACCGCTGAGCAAGCAACAAATTTGTCA 780
Db TTATTTAATGTTTGAACCACTATTTATGACCGCTGAGCAAGCAACAAATTTGTCA 2896
QY ACCGTCCTCTGCTGCTGATATGCTCTGAACCTGCTGCTGATATGATACGGGAC 840
Db ACCGTCCTCTGCTGCTGATATGCTCTGAACCTGCTGCTGATATGATACGGGAC 2956
QY GAACAGGAGAGATCCGTCTCTCTTTTAAACCTGCGATATTCCTGTGTAAGCAC 900
Db GAACAGGAGAGATCCGTCTCTCTTTTAAACCTGCGATATTCCTGTGTAAAGCAC 3016
QY ATTTGGAAGACAGATACGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 960
Db ATTTGGAAGACAGATACGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 3076
QY ACCAGCCAGGCTGGGCTCTCTTCTGCAATGATCTATCAAAATTCAGAGAGTTGGTGTG 1020
Db ACCAGCCAGGCTGGGCTCTCTTCTGCAATGATCTATCAAAATTCAGAGAGTTGGTGTG 3136
QY AAGTTGCAATCTTTGGGGGAGTAACATTGAGCCAAAGTCCGAGCTGCTTCCAAATTTG 1080
Db AAGTTGCAATCTTTGGGGGAGTAACATTGAGCCAAAGTCCGAGCTGCTTCCAAATTTG 3196
QY AAGTTGCAATCTTTGGGGGAGTAACATTGAGCCAAAGTCCGAGCTGCTTCCAAATTTG 1140
Db AAGTTGCAATCTTTGGGGGAGTAACATTGAGCCAAAGTCCGAGCTGCTTCCAAATTTG 3256
QY AGTCAATGCTGTGCTGCTGCTGCTGCAAGAGTGGCTGCTGCAAGAGCTGCT 1200
Db AGTCAATGCTGTGCTGCTGCTGCTGCAAGAGTGGCTGCTGCAAGAGCTGCT 3316
QY AGGCAATATGTAACATCTGCAAAAGTGTCCAAATCATTTGATTCAGTACAGAGTCTTA 1260
Db AGGCAATATGTAACATCTGCAAAAGTGTCCAAATCATTTGATTCAGTACAGAGTCTTA 3376
QY AGCACTTAAATTAATGACATCTGCCAAGAGCTGCTTTTCTGTGATGATTCAGAAAGCC 1320
Db AGCACTTAAATTAATGACATCTGCCAAGAGCTGCTTTTCTGTGATGATTCAGAAAGCC 3436
QY ATAAATGACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380
Db ATAAATGACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3496
QY GAGACTTATGCAAGTACTTAAATAAACAATTTGCAACCAAGATTTTGTGCAAGATC 1440
Db GAGACTTATGCAAGTACTTAAATAAACAATTTGCAACCAAGATTTTGTGCAAGATC 3556
QY CCCGAATGAGGCTACCTGCAAGTCAAGCTGCTTGAAGGGGAGCAACATGAAATCTCCG 1500
Db CCCGAATGAGGCTACCTGCAAGTCAAGCTGCTTGAAGGGGAGCAACATGAAATCTCCG 3616

RESULT 12
US-09-949-016-2820
; Sequence 2820, Application US/09949016
; Patent No. 681239

GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2820
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2820

Query Match 99.8%; Score 1498.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 AGCTCAATATGATGAGGAGAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAATATG 60
Db AGCTCAATATGATGAGGAGAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAATATG 2176
QY ATGAGACCCCTTGAAGAAGCTCCAGGAACCTTCAAGAGGCCAGATGAGCTGACCTCAAGC 120
Db ATGAGACCCCTTGAAGAAGCTCCAGGAACCTTCAAGAGGCCAGATGAGCTGACCTCAAGC 2236
QY TGGCCAAAGCTGAGTATCAAGGATCTTGGCAGCCGCTGGGAGATCTCTCATTTGACT 180
Db TGGCCAAAGCTGAGTATCAAGGATCTTGGCAGCCGCTGGGAGATCTCTCATTTGACT 2296
QY CTCTCAAGATCACCTGAGAAAGCTCAAGGACCTTGCAGAGAAATTTGCGCTGAAAG 240
Db CTCTCAAGATCACCTGAGAAAGCTCAAGGACCTTGCAGAGAAATTTGCGCTGAAAG 2356
QY CTTCCAAAGATCACCTGAGAAAGCTCAAGGACCTTGCAGAGAAATTTGCGCTGAAAG 2536
Db CTTCCAAAGATCACCTGAGAAAGCTCAAGGACCTTGCAGAGAAATTTGCGCTGAAAG 2616
QY AGAAGTGAAGCAGCTCAATGACCTTGTCTGCAAGCTTACCACTTTGGGCAATTCAGCTCT 300
Db AGAAGTGAAGCAGCTCAATGACCTTGTCTGCAAGCTTACCACTTTGGGCAATTCAGCTCT 2416
QY CACCGTATTAACCTGACGACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGG 360
Db CACCGTATTAACCTGACGACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGG 2476
QY CCGTGAAGGAGCGAGTCAAGGAGCTGCAAGGACCAAGGAGCTTTGTGTCAGAGATCTC 420
Db CCGTGAAGGAGCGAGTCAAGGAGCTGCAAGGACCAAGGAGCTTTGTGTCAGAGATCTC 2536
QY AGCACTTCTTTCACAGCTGTCTGCAAGGCTCCCTGGGAGAGGCAATCTGCGCAAAAG 480
Db AGCACTTCTTTCACAGCTGTCTGCAAGGCTCCCTGGGAGAGGCAATCTGCGCAAAAG 2596
QY TGCCTACTATATGACCAAGAGCTCAACCAACTTGTGAGACCATCCCAAAATGACAG 540
Db TGCCTACTATATGACCAAGAGCTCAACCAACTTGTGAGACCATCCCAAAATGACAG 2656
QY AGCTTACCAAGCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTTATAGACTGCCA 600
Db AGCTTACCAAGCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTTATAGACTGCCA 2716
QY TGAACCTCCGAAAGCTGAGAAAGGCCCTTGTGCTGAGATCTCTGAGCCCTGACAGCTGAT 660
Db TGAACCTCCGAAAGCTGAGAAAGGCCCTTGTGCTGAGATCTCTGAGCCCTGACAGCTGAT 2776
QY GTGATGCTTGGACAGCAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTCGCAGA 720
Db GTGATGCTTGGACAGCAGCAACCTCAAGCAAAATGACCAAGCCATGATATCTCGCAGA 2836

QY 721 TTATTAATTTGTTGACCACTATTATGACCGCTGGAGCAAGACACAAATTTGGTCA 780
Db 2837 TTATTAATTTGTTGACCACTATTATGACCGCTGGAGCAAGACACAAATTTGGTCA 2896
QY 781 ACGTCCCTCTCTGCTGGATATGTGTCTGAACTGGCTGTAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTCTGCTGGATATGTGTCTGAACTGGCTGTAATGTTATGATACGGGAC 2956
QY 841 GAACAGGAGAGATCCGTCCTGCTTTTAAACTGGCAATCTTCCCTGTGTAAGCAC 900
Db 2957 GAACAGGAGAGATCCGTCCTGCTTTTAAACTGGCAATCTTCCCTGTGTAAGCAC 3016
QY 901 ATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 960
Db 3017 ATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG 3076
QY 961 ACCAGCGCAGGCTGGGCTCTCTCTGATGATCTTATCCAAATTTCCAAAGCAAGTGGGTG 1020
Db 3077 ACCAGCGCAGGCTGGGCTCTCTCTGATGATCTTATCCAAATTTCCAAAGCAAGTGGGTG 3136
QY 1021 AAGTTGATCTCTTTGGGGGAGTAACTGATGAGCCAGTGTCCGAGCTGCTTCCAAATTTG 1080
Db 3137 AAGTTGATCTCTTTGGGGGAGTAACTGATGAGCCAGTGTCCGAGCTGCTTCCAAATTTG 3196
QY 1081 CTATATATAGCCAGAGATCGAAGCGGCTCTCTTCTGATGATGATGAGATCGAAGCCCTC 1140
Db 3197 CTATATATAGCCAGAGATCGAAGCGGCTCTCTTCTGATGATGATGAGATCGAAGCCCTC 3256
QY 1141 AGTCATGTGTGTGCTGCTGCTGCTGCAAGAGTGGCTGCTGCAAGAACTGCAAGCAATC 1200
Db 3257 AGTCATGTGTGTGCTGCTGCTGCTGCAAGAGTGGCTGCTGCAAGAACTGCAAGCAATC 3316
QY 1201 AGGCCAAATGTAACTATGTCGCAAGAGTGTCCATATGATGATTCAGATTCAGAGATCTTA 1260
Db 3317 AGGCCAAATGTAACTATGTCGCAAGAGTGTCCATATGATGATTCAGATTCAGAGATCTTA 3376
QY 1261 AGCACTTTATATATGATCACTGTCGCAAGCTGCTTTTCTGATGATGATTCGCAAGAGCC 1320
Db 3377 AGCACTTTATATATGATCACTGTCGCAAGCTGCTTTTCTGATGATGATTCGCAAGAGCC 3436
QY 1321 ATAAATGCACTATCTCCATGTGTGATATGTCACCTCCGACTACATCAGAGAGATGTTT 1380
Db 3437 ATAAATGCACTATCTCCATGTGTGATATGTCACCTCCGACTACATCAGAGAGATGTTT 3496
QY 1381 GAGACTTTGCCAAGTACTATAAAACAATTTGAAACCAAAAGTATTTTGGCAAGCATC 1440
Db 3497 GAGACTTTGCCAAGTACTATAAAACAATTTGAAACCAAAAGTATTTTGGCAAGCATC 3556
QY 1441 CCGGAATGGGCTTACCTGCGAGTGCAGACTGTCTTGAAGGGGGAACAATGGAATCTCCG 1500
Db 3557 CCGGAATGGGCTTACCTGCGAGTGCAGACTGTCTTGAAGGGGGAACAATGGAATCTCCG 3616

RESULT 13

US-09-949-016-2822
; Sequence 2822 Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2822

; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2822

Query Match 99.8%; Score 1498.4; DB 4; Length 7141;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCAATACGATGAGGAAAAATTGAACCTGCACTCCGCTGACTGCGAGAAAAATAG 60
Db 2117 AGGTCAATACGATGAGGAAAAATTGAACCTGCACTCCGCTGACTGCGAGAAAAATAG 2176
QY 61 ATGAGCCCTTGAAGAATCCAGGAACTTCAAGAGCCAGATGAGTGTGACTCAAGC 120
Db 2177 ATGAGCCCTTGAAGAATCCAGGAACTTCAAGAGCCAGATGAGTGTGACTCAAGC 2236
QY 121 TGGCCCAAGCTGAGGTATCAAGGGATCTGGCAGCCGCTGGGCGATCTCTCATTTGACT 180
Db 2237 TGGCCCAAGCTGAGGTATCAAGGGATCTGGCAGCCGCTGGGCGATCTCTCATTTGACT 2296
QY 181 CTCTCAAGATCACTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCTTGAAG 240
Db 2297 CTCTCAAGATCACTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCTTGAAG 2356
QY 241 AGAAGCTGAGCCAGTCAATGATCTTGTGCGCAGCTTACCACTTTGGSCATTCAGCTCT 300
Db 2357 AGAAGCTGAGCCAGTCAATGATCTTGTGCGCAGCTTACCACTTTGGSCATTCAGCTCT 2416
QY 301 CACCGTATTAACCTGACACCTGGAAGACCTGAACACCAAGATGAAAGCTTTGCAAGTGTG 360
Db 2417 CACCGTATTAACCTGACACCTGGAAGACCTGAACACCAAGATGAAAGCTTTGCAAGTGTG 2476
QY 361 CCGTGAAGACCGAGTCAAGGCTGATGAAAGCCCAAGGAGCTTGGTCCAGATCTC 420
Db 2477 CCGTGAAGACCGAGTCAAGGCTGATGAAAGCCCAAGGAGCTTGGTCCAGATCTC 2536
QY 421 AGCACTTTCTTTCACAGTGTGTCAGAGGCTCTGGGAAGAGCCATCTGCCCAAAAG 480
Db 2537 AGCACTTTCTTTCACAGTGTGTCAGAGGCTCTGGGAAGAGCCATCTGCCCAAAAG 2596
QY 481 TGCCTACTATATCAACAAGCAAGACTCAAAACAATTTGCGGAGCAATCTGCCCAAAAG 540
Db 2597 TGCCTACTATATCAACAAGCAAGACTCAAAACAATTTGCGGAGCAATCTGCCCAAAAG 2656
QY 541 AGCTACCAAGCTTACCTGATCTGAATTAATGTGCAATTTCAAGCTTATAGACTGCCA 600
Db 2657 AGCTACCAAGCTTACCTGATCTGAATTAATGTGCAATTTCAAGCTTATAGACTGCCA 2716
QY 601 TGAATCTCGAAGACTGAGAGGCTTTGCTTGAATCTTGAAGCTGTCAGCTGCAT 660
Db 2717 TGAATCTCGAAGACTGAGAGGCTTTGCTTGAATCTTGAAGCTGTCAGCTGCAT 2776
QY 661 GTGATGCTTGGACCAAGCACTCAAGCAAAATGACAGCCCATGATATCTGAGA 720
Db 2777 GTGATGCTTGGACCAAGCACTCAAGCAAAATGACAGCCCATGATATCTGAGA 2836
QY 721 TTATTAATTTGTTGACCACTATTATGACCGCTGGAGCAAGGACAAATTTGGTCA 780
Db 2837 TTATTAATTTGTTGACCACTATTATGACCGCTGGAGCAAGGACAAATTTGGTCA 2896
QY 781 ACGTCCCTCTCTGCTGGATATGTGTCTGAATGCTGTAATGTTATGATACGGGAC 840
Db 2897 ACGTCCCTCTCTGCTGGATATGTGTCTGAATGCTGTAATGTTATGATACGGGAC 2956
QY 841 GAACAGGAGAGATCCGTCCTGCTTTTAAACTGGCAATCTTCCCTGTGTAAGCAC 900
Db 2957 GAACAGGAGAGATCCGTCCTGCTTTTAAACTGGCAATCTTCCCTGTGTAAGCAC 3016
QY 901 ATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTG 960
Db 3017 ATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG 3076

Qy 961 ACCAGCCAGGCTGGGCTCTCTCTGATGATTCATCCAAATTCAGAGAGATGGGTG 1020
Db 3077 ACCAGCCAGGCTGGGCTCTCTCTGATGATTCATCCAAATTCAGAGAGATGGGTG 3136
Qy 1021 AAGTTCATCTTTGGGGGAGTAACATTGAGCCAAAGTTCGGAGCTGCTTCCAAATTTG 1080
Db 3137 AAGTTCATCTTTGGGGGAGTAACATTGAGCCAAAGTTCGGAGCTGCTTCCAAATTTG 3196
Qy 1081 CTATATTAAGCCAGAGATGCAAGGGGCGCTTCTCTGACTGATGATGAGATGGAACCC 1140
Db 3197 CTATATTAAGCCAGAGATGCAAGGGGCGCTTCTCTGACTGATGAGATGGAACCC 3256
Qy 1141 AGTCCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGTCAGAAATCCCAAGCATC 1200
Db 3257 AGTCCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGTCAGAAATCCCAAGCATC 3316
Qy 1201 AGGCCAAATGTACATCTGCAGAAAGGTGTCCAAATCATTGATTCAGATACAGAGTCTAA 1260
Db 3317 AGGCCAAATGTACATCTGCAGAAAGGTGTCCAAATCATTGATTCAGATACAGAGTCTAA 3376
Qy 1261 AGCATTTAATTAAGACATCTGCCAAAGCTGCTTTTCTGCTGAGATTCGAAAGGCC 1320
Db 3377 AGCATTTAATTAAGACATCTGCCAAAGCTGCTTTTCTGCTGAGATTCGAAAGGCC 3436
Qy 1321 ATAAATGCACTATCCCATGTGTGAAATTTGCACTCCGACTACATCAGAGAAAGATGTTG 1380
Db 3437 ATAAATGCACTATCCCATGTGTGAAATTTGCACTCCGACTACATCAGAGAAAGATGTTG 3496
Qy 1381 GAGACTTTGCCAAGGTAATAAAAAAATAATTCGAAACCAAAAGTATTTTGCAGAGCATC 1440
Db 3497 GAGACTTTGCCAAGGTAATAAAAAAATAATTCGAAACCAAAAGTATTTTGCAGAGCATC 3556
Qy 1441 CCCGAATGGGTACTCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAATCGAAACTCCCG 1500
Db 3557 CCCGAATGGGTACTCTGCCAGTGCAGACTGTCTTAGAGGGGGAACAATCGAAACTCCCG 3616

RESULT 14

US-09-949-016-2823
Sequence 2823, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CU001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241, 755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237, 768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231, 498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: PasteSeq for Windows Version 4.0
SEQ ID NO 2823
LENGTH: 7141
TYPE: DNA
ORGANISM: Human
US-09-949-016-2823

Query Match 99.8%; Score 1498.4; DB 4; Length 7141;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGGTCAATCTGATGGGAAAAATGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
Db 2117 AGGTCAATCTGATGGGAAAAATGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
Qy 61 ATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCAGATGAGCTGCAACCTCAAGC 120
Db 2177 ATGAGACCTTTGAAAGACTCCGAGAACTTCAAGAGGCCAGATGAGCTGCAACCTCAAGC 2236

Qy 121 TGGCCAAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGGGATCTCTCATTTGACT 180
Db 2237 TGGCCAAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGGGATCTCTCATTTGACT 2296
Qy 181 CTCTCAAGATACCTCGAGAAAGTCAAGGCACTTTCAGAGAAATTCGCTCTGAAAG 240
Db 2297 CTCTCAAGATACCTCGAGAAAGTCAAGGCACTTTCAGAGAAATTCGCTCTGAAAG 2356
Qy 241 AGAAGTGAAGCAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCT 300
Db 2357 AGAAGTGAAGCAGTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCAATTCAGCT 2416
Qy 301 CACCGTAACTCTGAGCACTCTGGAAGACTGAAACACAGATGGAAGCTTCTGCAAGTGG 360
Db 2417 CACCGTAACTCTGAGCACTCTGGAAGACTGMAACACAGATGGAAGCTTCTGCAAGTGG 2476
Qy 361 CCGTCAGAGACGAGTCAGGAGCTGCATGAAAGCCCAAGGGAATTTGTCCAGCATCTC 420
Db 2477 CCGTCAGAGACGAGTCAGGAGCTGCATGAAAGCCCAAGGGAATTTGTCCAGCATCTC 2536
Qy 421 AGCATTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAG 480
Db 2537 AGCATTTCTTTCCACGCTGTCTCCAGGGTCCCTGGAGAGAGCCATCTCGCCAAACAAAG 2596
Qy 481 TGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 540
Db 2597 TGCCCTACTATATCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAG 2656
Qy 541 AGCTCTACAGTCTTTAGCTGACCTGMAATTAATGTCAGATTTCTCAGCTTATAGAGCTGCCA 600
Db 2657 AGCTCTACAGTCTTTAGCTGACCTGMAATTAATGTCAGATTTCTCAGCTTATAGAGCTGCCA 2716
Qy 601 TGAAACTCCGAAGACTGCAAGAGGCCCTTGTGCTTGAATCTCTTAGCCTGTCAAGTGCAT 660
Db 2717 TGAAACTCCGAAGACTGCAAGAGGCCCTTGTGCTTGAATCTCTTAGCCTGTCAAGTGCAT 2776
Qy 661 GTGATGCTTGGACACAGCAACAACCTCAAGCAAAATGACACAGCCCATGATATCTGACAGA 720
Db 2777 GTGATGCTTGGACACAGCAACAACCTCAAGCAAAATGACACAGCCCATGATATCTGACAGA 2836
Qy 721 TTATTAATTTGTTGACCACTAATTAATGACCGCTGAGCAAGAGCAACAATTTGTCTCA 780
Db 2837 TTATTAATTTGTTGACCACTAATTAATGACCGCTGAGCAAGAGCAACAATTTGTCTCA 2896
Qy 781 ACGTCCCTCTCTGGGTGATATGTGTCTGAACCTGCTGCTGAATTTATATACGGGAC 840
Db 2897 ACGTCCCTCTCTGGGTGATATGTGTCTGAACCTGCTGCTGAATTTATATACGGGAC 2956
Qy 841 GAAACGGGAGGATCCGTGCTCTGCTTTTAAACCTGGCATGATTTCCCTGTGTAAAGAC 900
Db 2957 GAAACGGGAGGATCCGTGCTCTGCTTTTAAACCTGGCATGATTTCCCTGTGTAAAGAC 3016
Qy 901 ATTTGGAAGACAGATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG 960
Db 3017 ATTTGGAAGACAGATACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTG 3076
Qy 961 ACCAGCGGAGCTGGGCTCTCTTCTGCAATTTCTATCCAAATTCAGAGAGATTTGGGTG 1020
Db 3077 ACCAGCGGAGCTGGGCTCTCTTCTGCAATTTCTATCCAAATTCAGAGAGATTTGGGTG 3136
Qy 1021 AAGTTCATCTTTGGGGGAGTAACATTGAGCCAAAGTTCGGAGCTGCTTCCAAATTTG 1080
Db 3137 AAGTTCATCTTTGGGGGAGTAACATTGAGCCAAAGTTCGGAGCTGCTTCCAAATTTG 3196
Qy 1081 CTATATTAAGCCAGAGATGCAAGGGGCGCTTCTCTGACTGATGATGAGATGGAACCC 1140
Db 3197 CTATATTAAGCCAGAGATGCAAGGGGCGCTTCTCTGACTGATGATGAGATGGAACCC 3256
Qy 1141 AGTCCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGTCAGAAATCCCAAGCATC 1200
Db 3257 AGTCCATGCTGTGGCTGCGCCCTCTCTGCAAGAGTGGCTGTCAGAAATCCCAAGCATC 3316

QY 1201 AGCCAAATGTAACATCTGCAAGAGTGTCCATCTTGGATTCCAGGTACTTA 1260
DB 3317 AGGCCAATGTAAATCATCTGCAAGAGTGTCCATCTTGGATTCCAGGTACTTA 3376
QY 1261 AGCACTTAAATTAATGAAATCTGCCAAAGCTGCTTTTCTGCTGCAAGTTCAGAAAGGC 1320
DB 3377 AGCACTTAAATTAATGAAATCTGCCAAAGCTGCTTTTCTGCTGCAAGTTCAGAAAGGC 3436
QY 1321 ATAAATGCACTATCCCATGATGAAATATGCACTCCGACTATATAGAGAAAGATGTC 1380
DB 3437 ATAAATGCACTATCCCATGATGAAATATGCACTCCGACTATATAGAGAAAGATGTC 3496
QY 1381 GAACTTTGGCAAGGTACTTAAATAAATTTGAAACCAAAAGATTTTGGCAAGCATC 1440
DB 3497 GAACTTTGGCAAGGTACTTAAATAAATTTGAAACCAAAAGATTTTGGCAAGCATC 3556
QY 1441 CCGGAATGGGCTACTGCGCAGTGCAGACTGCTTAAAGGGGCAACAATGAACTCCCG 1500
DB 3557 CCGGAATGGGCTACTGCGCAGTGCAGACTGCTTAAAGGGGCAACAATGAACTCCCG 3616

RESULT 15

US-09-949-016-2824
; Sequence 2824, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 2000-09-08
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 2824
; LENGTH: 7141
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2824

Query Match 99.8%; Score 1498.4; DB 4; Length 7141;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGGTCAATTAATGATGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 60
DB 2117 AGGTCAATTAATGATGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAG 2176
QY 61 ATGAGACCCCTTGAAGAACTTCAAGAACTTCAAGAGGCAAGATGAGTGAAGCTTCAAGC 120
DB 2177 ATGAGACCCCTTGAAGAACTTCAAGAACTTCAAGAGGCAAGATGAGTGAAGCTTCAAGC 2236
QY 121 TGGCCCAAGCTGAGGTATTAAGGATCTTGGCAGCCCGTGGCGATCTTCTCATTGACT 180
DB 2237 TGGCCCAAGCTGAGGTATTAAGGATCTTGGCAGCCCGTGGCGATCTTCTCATTGACT 2296
QY 181 CTCTCCAAAGTCACTTGAAGAAAGTCAAGGCACTTGAAGAGAAATTTGGGCGCTGAAAG 240
DB 2297 CTCTCCAAAGTCACTTGAAGAAAGTCAAGGCACTTGAAGAGAAATTTGGGCGCTGAAAG 2356
QY 241 AGAAGGTGAGCCAGTCAATGACTTGTCTGCGCACTTCACTTGGGCAATTCAGCTCT 300
DB 2357 AGAAGGTGAGCCAGTCAATGACTTGTCTGCGCACTTCACTTGGGCAATTCAGCTCT 2416
QY 301 CACCGTATAACTCAGACACTTGAAGAGCTGTAACCAAGATGGAAGCTTTCGAGGTGG 360
DB 2417 CACCGTATAACTCAGACACTTGAAGAGCTGTAACCAAGATGGAAGCTTTCGAGGTGG 2476

QY 361 CCGTGAAGGACCAAGTCAAGGAGCTGATGTAAGGCCACAAGGCACTTTGTCCAGATCTC 420
DB 2477 CCGTGAAGGACCAAGTCAAGGAGCTGATGTAAGGCCACAAGGCACTTTGTCCAGATCTC 2536
QY 421 AGCACTTTCTTTCCAGCTCTGTCCAGAGGCTCCCTGGAGAGAGCCATCTCCGCAAAAG 480
DB 2537 AGCACTTTCTTTCCAGCTCTGTCCAGAGGCTCCCTGGAGAGAGCCATCTCCGCAAAAG 2596
QY 481 TGCCCTATATATCAACCAAGAGCTCAACCAATTTCTGGAGACATCCCAAAATGACAG 540
DB 2597 TGCCCTATATATCAACCAAGAGCTCAACCAATTTCTGGAGACATCCCAAAATGACAG 2656
QY 541 AGCTTCAACGACTTTTGAAGTGAAGCTGAAATATGACATTTCTAGCTTATAGAGCTGCCA 600
DB 2657 AGCTTCAACGACTTTTGAAGTGAAGCTGAAATATGACATTTCTAGCTTATAGAGCTGCCA 2716
QY 601 TGAACCTCCGAAGCTGCAAGAGCCCTTTGTGGATCTTGAAGCTTGTAGCTGAT 660
DB 2717 TGAACCTCCGAAGCTGCAAGAGCCCTTTGTGGATCTTGAAGCTTGTAGCTGAT 2776
QY 661 GTGATGCTTTGACACAGCAACAACCTCAAGCAAAATGCCAGCCATGATATCTGACAA 720
DB 2777 GTGATGCTTTGACACAGCAACAACCTCAAGCAAAATGCCAGCCATGATATCTGACAA 2836
QY 721 TTAATTAATTTGTGACCACTAATTTATGACCGCTGAGAGACCAACAATTTGATCA 780
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QY 841 GAAACAGGAGGATCCGTGCTGCTTTTAAACCTGCAATCTTCCCTGTGTAAGAC 900
DB 2957 GAAACAGGAGGATCCGTGCTGCTTTTAAACCTGCAATCTTCCCTGTGTAAGAC 3016
QY 901 ATTGGAAGACAAGTACATATCTTTTCAAGCAAGTGCAGCACTTCAAGATTTGTG 960
DB 3017 ATTGGAAGACAAGTACATATCTTTTCAAGCAAGTGCAGCACTTCAAGATTTGTG 3076
QY 961 ACCAAGGAGGCTGAGGCTCTTCTGCAATGATCTATCAAAATTTCAAGAGCTGGGTG 1020
DB 3077 ACCAAGGAGGCTGAGGCTCTTCTGCAATGATCTATCAAAATTTCAAGAGCTGGGTG 3136
QY 1021 AAGTGGCAATCTTTGGGGGCAATTAATTTAGCCCAAGTGTCCGAGCTTCCAAATTTG 1080
DB 3137 AAGTGGCAATCTTTGGGGGCAATTAATTTAGCCCAAGTGTCCGAGCTTCCAAATTTG 3196
QY 1081 CTAAATTAATGACAGATGCAAGAGGCGCTCTTCTTAAGACTGATGAGATGAGAACCCC 1140
DB 3197 CTAAATTAATGACAGATGCAAGAGGCGCTCTTCTTAAGACTGATGAGATGAGAACCCC 3256
QY 1141 AGTCAATGCTGTGCTGCTCCGCTCTGCAAGAGTGTCTGCAAGAACTGCAAGATC 1200
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QY 1201 AGGCCAAATGTAACATCTGCAAGAGTGTCCAAATTTGATTTAGATACAGAGTCTAA 1260
DB 3317 AGGCCAAATGTAACATCTGCAAGAGTGTCCAAATTTGATTTAGATACAGAGTCTAA 3376
QY 1261 AGCACTTTAATTAATGACATCTGCAAGAGTGTCTTTTCTGTGCAAGTTGCAAAAGGCC 1320
DB 3377 AGCACTTTAATTAATGACATCTGCAAGAGTGTCTTTTCTGTGCAAGTTGCAAAAGGCC 3436
QY 1321 ATAAATGCACTATCCCATGATGAAATATGCACTCCGACTATATAGAGAAAGATGTC 1380
DB 3437 ATAAATGCACTATCCCATGATGAAATATGCACTCCGACTATATAGAGAAAGATGTC 3496
QY 1381 GAACTTTGGCAAGGTACTTAAATAAATTTGAAACCAAAAGATTTTGGCAAGCATC 1440
DB 3497 GAACTTTGGCAAGGTACTTAAATAAATTTGAAACCAAAAGATTTTGGCAAGCATC 3556

Qy 1441 CCCGATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACACATGGAACTCCCG 1500
|||
Db 3557 CCCGATGGGCTACCTGCCAGTGCAGACTGTCTTAGAGGGGGACACATGGAACTCCCG 3616
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Job time : 267.233 secs

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Db      423 CGGATAGCTGGAGCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCTGGAGCCCG 482
QY      181 TGGGCGATCTCCCTCAATTTGAATCTCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 240
Db      483 TGGGCGATCTCTCATTTGATCTCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 542
QY      241 GAGAAATTGGGCTCTGAAAGAGAAAGTGAAGGACGATGACGATGACGATGACGATGACGAT 300
Db      543 GAGAAATTGGGCTCTGAAAGAGAAAGTGAAGGACGATGACGATGACGATGACGATGACGAT 602
QY      301 CCACCTTGGGCAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 360
Db      603 CCACCTTGGGCAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 662
QY      361 GATGAGACTTCTGAGGCTGGGCGGCGGAGGACGAGGACGAGGACGAGGACGAGGACGAGGAC 420
Db      663 GATGAGACTTCTGAGGCTGGGCGGCGGAGGACGAGGACGAGGACGAGGACGAGGACGAGGAC 722
QY      421 GGGGACTTGGGCTCAAGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 480
Db      723 GGGGACTTGGGCTCAAGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 782
QY      481 GAGCCATCTCGCAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 540
Db      783 GAGCCATCTCGCAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 842
QY      541 GGGGCAATCCCAAAATGACAGAGCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 600
Db      843 GGGGCAATCCCAAAATGACAGAGCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 902
QY      601 TCTCAGCTTATGAGACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 660
Db      903 TCTCAGCTTATGAGACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 962
QY      661 TCTTGGAGCTCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 720
Db      963 TCTTGGAGCTCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1022
QY      721 AGCCCATGATATCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 780
Db      1023 AGCCCATGATATCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1082
QY      781 AAGAGCAACAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 840
Db      1083 AAGAGCAACAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 1142
QY      841 TGAATGTTATGATGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 900
Db      1143 TGAATGTTATGATGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1202
QY      901 TCAATTTCCCTGTTAAGCAATTTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 960
Db      1203 TCAATTTCCCTGTTAAGCAATTTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1262
QY      961 CAAGTTCAACGAGATTTTGAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1020
Db      1263 CAAGTTCAACGAGATTTTGAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1322
QY      1021 AAATTTCAACGAGATTTTGAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1080
Db      1323 AAATTTCAACGAGATTTTGAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1382
QY      1081 TCGGAGCTGCTTCAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 1140
Db      1383 TCGGAGCTGCTTCAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 1442
QY      1141 ACTGATGAGACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1200
Db      1443 ACTGATGAGACTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1502
QY      1201 CTGCAAGAACTGCAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1260

Db      1503 CTGCAAGAACTGCAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 1562
QY      1261 GATTCGATGACAGAGCTTAAAGCACTTAAATATGATGATGATGATGATGATGATGATGAT 1320
Db      1563 GATTCGATGACAGAGCTTAAAGCACTTAAATATGATGATGATGATGATGATGATGATGAT 1622
QY      1321 CTGATGAGTCAAGGCTTAAAGCACTTAAATATGATGATGATGATGATGATGATGATGAT 1380
Db      1623 CTGATGAGTCAAGGCTTAAAGCACTTAAATATGATGATGATGATGATGATGATGATGAT 1682
QY      1381 CTACATCAAGAGAGATGTTGAGGCTTGAAGTCAAGGCTTGAAGTCAAGGCTTGAAGT 1440
Db      1683 CTACATCAAGAGAGATGTTGAGGCTTGAAGTCAAGGCTTGAAGTCAAGGCTTGAAGT 1742
QY      1441 AAAGGATTTTGGCAAGGCTTGAAGTCAAGGCTTGAAGTCAAGGCTTGAAGTCAAGGCT 1500
Db      1743 AAAGGATTTTGGCAAGGCTTGAAGTCAAGGCTTGAAGTCAAGGCTTGAAGTCAAGGCT 1802
QY      1501 G 1501
Db      1803 G 1803

RESULT 2
US-09-845-416-4
; Sequence 4, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-4

Query Match      100.0%; Score 1501; DB 10; Length 2169;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTCTACGAAAGCAGGCTGAGAGGCTCAATCTGAGTGGGAAATTTGAACCTGCACTCGG 60
Db      651 TTCTACGAAAGCAGGCTGAGAGGCTCAATCTGAGTGGGAAATTTGAACCTGCACTCGG 710
QY      61 CTGACTGGCAGAGAAATTAATGATGACCTTTGAAAGCTTCAGGAACTTCAAGAGGCCA 120
Db      711 CTGACTGGCAGAGAAATTAATGATGACCTTTGAAAGCTTCAGGAACTTCAAGAGGCCA 770
QY      121 CGATGAGCTGAGCCTCAAGGCTGGCCAGAGCTGAGGATCAAGGATCTCGGACACCCG 180
Db      771 CGATGAGCTGAGCCTCAAGGCTGGCCAGAGCTGAGGATCAAGGATCTCGGACACCCG 830
QY      181 TGGGCGATCTCTCATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 240
Db      831 TGGGCGATCTCTCATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 890
QY      241 GAGAAATTGGGCTCTGAAAGAGAAAGTGAAGGACGATGACGATGACGATGACGATGACGAT 300
Db      891 GAGAAATTGGGCTCTGAAAGAGAAAGTGAAGGACGATGACGATGACGATGACGATGACGAT 950
QY      301 CCACCTTGGGCAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 360
Db      951 CCACCTTGGGCAATTTGATGATCTTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAG 1010
QY      361 GATGAGGCTTCTGAGGCTGGGCGGCGGAGGACGAGGACGAGGACGAGGACGAGGACGAGGAC 420
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Db 1011 GATGAAAGCTTCTGCAAGTGGCCGTCGAGACCGAGTCAGGCACTGATGAAGCCCA 1070
Qy 421 GGGACTTTGGTCCGACATCTCAGACATTTCTTTCAGAGTCTGTCTCAAGGATCCCTGGAGA 480
Db 1071 GGGACTTTGGTCCGACATCTCAGACATTTCTTTCAGAGTCTGTCTCAAGGATCCCTGGAGA 1130
Qy 481 GAGCCATCTGGCCCAAGAGTGGCCCTACTATATCAACCAAGAGCTCAACACTTGTCT 540
Db 1131 GAGCCATCTGGCCCAAGAGTGGCCCTACTATATCAACCAAGAGCTCAACACTTGTCT 1190
Qy 541 GGGACATCTCCCAAAATGACAGAGCTCTACAGCTTTAGTACCTGAATAATGTCAGAT 600
Db 1191 GGGACATCTCCCAAAATGACAGAGCTCTACAGCTTTAGTACCTGAATAATGTCAGAT 1250
Qy 601 TCTCAGCTTATAGAGCTGCGCATGAACTCCGAGAATCTGACAGAGGCCCTTGTCTGATC 660
Db 1251 TCTCAGCTTATAGAGCTGCGCATGAACTCCGAGAATCTGACAGAGGCCCTTGTCTGATC 1310
Qy 661 TCTTGAAGCTGTGAGCTGAGCTGATGCTTGAACAGCAACCTCAAGCAAAATGACC 720
Db 1311 TCTTGAAGCTGTGAGCTGAGCTGATGCTTGAACAGCAACCTCAAGCAAAATGACC 1370
Qy 721 AGCCCATGATATCTGACAGATTTAATGTTGACCACTATTATGACCCGCTGAGC 780
Db 1371 AGCCCATGATATCTGACAGATTTAATGTTGACCACTATTATGACCCGCTGAGC 1430
Qy 781 AAGAGCAACAATTTGGTCAACGTCCTCTGCTGGTGAATGTGTCTGAATCTGCTGC 840
Db 1431 AAGAGCAACAATTTGGTCAACGTCCTCTGCTGGTGAATGTGTCTGAATCTGCTGC 1490
Qy 841 TGAATGTTTATGATACGGGAGGAAACAGGAGATCCGCTCTGCTTTTAAACTGGCA 900
Db 1491 TGAATGTTTATGATACGGGAGGAAACAGGAGATCCGCTCTGCTTTTAAACTGGCA 1550
Qy 901 TCATTTCCCTGTGTAAGCACTTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGG 960
Db 1551 TCATTTCCCTGTGTAAGCACTTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGG 1610
Qy 961 CAAGTTCAACAGATTTTGTGACAGCGGAGGCTGCTCTTCTGTGATATCTATCC 1020
Db 1611 CAAGTTCAACAGATTTTGTGACAGCGGAGGCTGCTCTTCTGTGATATCTATCC 1670
Qy 1021 AAATTCAGAGCACTGGGTGAAGTGCATCTTTGGGGAGATGAACATTGAGCAAGTG 1080
Db 1671 AAATTCAGAGCACTGGGTGAAGTGCATCTTTGGGGAGATGAACATTGAGCAAGTG 1730
Qy 1081 TCCGAGCTGCTTCAATTTGCTAATAATAAGCAGAGATCGAAGCGGCTCTTCTAG 1140
Db 1731 TCCGAGCTGCTTCAATTTGCTAATAATAAGCAGAGATCGAAGCGGCTCTTCTAG 1790
Qy 1141 ACTGGATGAGACTGGAACCCCAAGTCATGATGTGGCTGCCCTCTGTGACAGAGTGGCTG 1200
Db 1791 ACTGGATGAGACTGGAACCCCAAGTCATGATGTGGCTGCCCTCTGTGACAGAGTGGCTG 1850
Qy 1201 CTGAGAGAACTGCCAAGATAGAGCCAAATGTAACATCTGCAAGAGTGTCAATCATTG 1260
Db 1851 CTGAGAGAACTGCCAAGATAGAGCCAAATGTAACATCTGCAAGAGTGTCAATCATTG 1910
Qy 1261 GATTCAAGTACAGAGTCTAAGCACTTTAATATGACATCTGCAAGAGTGTCTTTT 1320
Db 1911 GATTCAAGTACAGAGTCTAAGCACTTTAATATGACATCTGCAAGAGTGTCTTTT 1970
Qy 1321 CTGGTCAAGTGTCAAAAGGCAATAATGACATATCCATGCTGGAATATTTGCACTCGA 1380
Db 1971 CTGGTCAAGTGTCAAAAGGCAATAATGACATATCCATGCTGGAATATTTGCACTCGA 2030
Qy 1381 CTATATCAGAGAGAGTGTGAGACTTTGCAAGTGTCTAATAAACAATTTTGAACA 1440
Db 2031 CTATATCAGAGAGAGTGTGAGACTTTGCAAGTGTCTAATAAACAATTTTGAACA 2090
Qy 1441 AAAGGTAATTTTGGCAAGCATCCCGAATGGGCTACTGCGAGTGACATGCTTTAGAG 1500

Db 2091 AAAGGTAATTTTGGCAAGCATCCCGAATGGGCTACTGCGAGTGACATGCTTTAGAG 2150
Qy 1501 G 1501
Db 2151 G 2151

RESULT 3
US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845, 416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200, 777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-12

Query Match 100.0%; Score 1501; DB 10; Length 3510;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTTACGAAAGCAGGCTGAGGAGTCAATATCTAGTGGGAAAAATTGAACCTGCACCTCG 60
Db 1979 TTCTACGAAAGCAGGCTGAGGAGTCAATATCTAGTGGGAAAAATTGAACCTGCACCTCG 2038
Qy 61 CTGACTGGCAGAGAAAAATAGATAGACCCCTTGAAGAATCTCAGAGAACTTCAAGAGCCA 120
Db 2039 CTGACTGGCAGAGAAAAATAGATAGACCCCTTGAAGAATCTCAGAGAACTTCAAGAGCCA 2098
Qy 121 CGATGAGCTGAGCTTCAAGCTGCGCAAGCTTGAGTATCAAGGATCTCTGGCAGCCCG 180
Db 2099 CGATGAGCTGAGCTTCAAGCTGCGCAAGCTTGAGTATCAAGGATCTCTGGCAGCCCG 2158
Qy 181 TGGGCGATCTCTCATTTGACCTCTCCAAAGATCACTCGAAGAAATCAAGGCACTTGAG 240
Db 2159 TGGGCGATCTCTCATTTGACCTCTCCAAAGATCACTCGAAGAAATCAAGGCACTTGAG 2218
Qy 241 GAGAAATTTGCGCTCTGAAAGAGAGAGGACAGCTCAATGACCTTGTGCGCAGCTTA 300
Db 2219 GAGAAATTTGCGCTCTGAAAGAGAGAGGACAGCTCAATGACCTTGTGCGCAGCTTA 2278
Qy 2219 GAGAAATTTGCGCTCTGAAAGAGAGAGGACAGCTCAATGACCTTGTGCGCAGCTTA 2278
Qy 301 CCACCTTGGGATTCAGCTCTACCGTATTAACCTCAAGCATCTCTGGAAGACTTGAACACCA 360
Db 2279 CCACCTTGGGATTCAGCTCTACCGTATTAACCTCAAGCATCTCTGGAAGACTTGAACACCA 2338
Qy 361 GATGGAAGCTTCTGCAAGTGGCCGTCGAGAGCCGAGTCAAGGACCTGATGAAGCCCA 420
Db 2339 GATGGAAGCTTCTGCAAGTGGCCGTCGAGAGCCGAGTCAAGGACCTGATGAAGCCCA 2398
Qy 421 GGGACTTTGGTCCGACATCTCAGACATTTCTTTCAGAGTCTGTCTCAAGGATCCCTGGAGA 480
Db 2399 GGGACTTTGGTCCGACATCTCAGACATTTCTTTCAGAGTCTGTCTCAAGGATCCCTGGAGA 2458
Qy 481 GAGCCATCTGGCCCAAGAGTGGCCCTACTATATCAACCAAGAGCTCAACACTTGTCT 540
Db 2459 GAGCCATCTGGCCCAAGAGTGGCCCTACTATATCAACCAAGAGCTCAACACTTGTCT 2518
Qy 541 GGGACATCTCCCAAAATGACAGAGCTCTACAGCTTTAGTACCTGAATAATGTCAGAT 600
Db 2519 GGGACATCTCCCAAAATGACAGAGCTCTACAGCTTTAGTACCTGAATAATGTCAGAT 2578
Qy 601 TCTCAGCTTATAGAGCTGCGCATGAACTCCGAGAATCTGACAGAGGCCCTTGTCTGATC 660

Db	2579	TCGAGCTTTAAGGACCTGCCATGAAATCTCCGAAAGACTCGCAAGAGGCTTTCCTTGGAATC	2638
QY	661	TCCTGAGGCTTCTCAGCTGCACTGATGTGATGCTCTTGACACAGACAACCTCAAGCAAAATGAC	720
Db	2639	TCCTGAGGCTGTCAGCTGCACTGATGTGATGCTCTTGACACAGACAACCTCAAGCAAAATGAC	2698
QY	721	AGCCCATGAGATATCTGCAATTTATTAATTTGTTTGACCTATTTATGACCGCTGAGGC	780
Db	2699	AGCCCATGAGATATCTGCAATTTATTAATTTGTTTGACCTATTTATGACCGCTGAGAGC	2758
QY	781	AAGGCAACAACAATTTGTCACAGCTCCCTCTGCTGAGATATGTCATGAACTGACTGC	840
Db	2759	AAGGCAACAACAATTTGTCACAGCTCCCTCTGCTGAGATATGTCATGAACTGACTGC	2818
QY	841	TGAATGTTTATGATACGCGGACGAAACAGGGAGGATCCGATCCCTGCTTTTAAACTGCA	900
Db	2819	TGAATGTTTATGATACGCGGACGAAACAGGGAGGATCCGATCCCTGCTTTTAAACTGCA	2878
QY	901	TCATTTCCCTGCTGTAAGACATTTGTAAGACAAAGTACAGATACCTTTTCAAGCAATGG	960
Db	2879	TCATTTCCCTGCTGTAAGACATTTGTAAGACAAAGTACAGATACCTTTTCAAGCAATGG	2938
QY	961	CAAGTTCACAGGATTTTGTGACACAGCGCAGGCTGGGCTCCCTCTGAGATTTCTATCC	1020
Db	2939	CAAGTTCACAGGATTTTGTGACACAGCGCAGGCTGGGCTCCCTCTGAGATTTCTATCC	2998
QY	1021	AAATTCACAACAGTTGGGTGAAGTGCATCTTTTGGGGGACAGTACATTGAGCCAAATG	1080
Db	2999	AAATTCACAACAGTTGGGTGAAGTGCATCTTTTGGGGGACAGTACATTGAGCCAAATG	3058
QY	1081	TCCGAGGCTGCTTCCAAATTTGCTATATATTAATGACAGAGATGAAAGCGGCCCTCTGAG	1140
Db	3059	TCCGAGGCTGCTTCCAAATTTGCTATATTAATGACAGAGATGAAAGCGGCCCTCTCTGAG	3118
QY	1141	ACMGATGAGACTGGAACCCAGTTCATGCTGTGGCTGGCCGTCCTGACAGAGTGGCTG	1200
Db	3119	ACMGATGAGACTGGAACCCAGTTCATGCTGTGGCTGGCCGTCCTGACAGAGTGGCTG	3178
QY	1201	CTGCAAGAACTGCGCAAGCATCAGGCAAAATGTACATCTGCAAGAGTGTCCAAATGATG	1260
Db	3179	CTGCAAGAACTGCGCAAGCATCAGGCAAAATGTACATCTGCAAGAGTGTCCAAATGATG	3238
QY	1261	GATTCAGGATCAGGATCTAAGCACTTTAATATGACATCTGCGCAAGCTGCTTTT	1320
Db	3239	GATTCAGGATCAGGATCTAAGCACTTTAATATGACATCTGCGCAAGCTGCTTTT	3298
QY	1321	CTGTCGAGTTGCAAAAGGCCATTAATATGACATCTGCGCAAGCTGCTTTT	1380
Db	3299	CTGTCGAGTTGCAAAAGGCCATTAATATGACATCTGCGCAAGCTGCTTTT	3358
QY	1381	CTACATCAGGAGAAAGATGTTGAGACTTTTGCCAAAGTACTAATAAAACAATTTGCAACA	1440
Db	3359	CTACATCAGGAGAAAGATGTTGAGACTTTTGCCAAAGTACTAATAAAACAATTTGCAACA	3418
QY	1441	AAAGGTAATTTTGCAGACATCCCGAATGGGCTACCTGCAATGGAGACTGCTTAAGAG	1500
Db	3419	AAAGGTAATTTTGCAGACATCCCGAATGGGCTACCTGCAATGGAGACTGCTTAAGAG	3478
QY	1501	G 1501	
Db	3479	G 3479	

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? CURRENT APPLICATION NUMBER: US/09/845,416
? CURRENT FILING DATE: 2001-04-30
? PRIOR APPLICATION NUMBER: 60/200,777
? PRIOR FILING DATE: 2000-04-28
? NUMBER OF SEQ ID NOS: 36
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 10
? LENGTH: 3531
? TYPE: DNA
? ORGANISM: Homo sapiens
US-09-845-416-10

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Query Match	100.0%;	Score 1501;	DB 10;	Length 3531.
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best local similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0;

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1. **THEORY**

[illegible]

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0 2 C G C C G G C G G A A A A G A I G A G A C C C T T G A A A G A C T C C A G G A C T T C A A G A G G C C A 120

2080 C T G A C T G G C A G A G A A A A T A G A T G A G A C C C T T G A A G A C T C C A G G A C T T C A A G A G C C A 2119

121 CGGATGAGCTGGACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCG 180

2120 CGATGAGCTGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCG 2179

181 TGGGCGATCTCTCATTTGACTCTCTCCAGAATCACCCTCGAGAACTCAAGGCACTTGGAG 240

2180 TGGGCGATCTCCTCATTGACTCTCTCCAAGATCACCTTGAGAAAGTAAAGCCCACTTTCCAC

241 GAGAAATTGCCCTTCTTGAAGAAGAACCTGACCCACCCTATTCACCTTTGGCCTT

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|||||TCTGTTGGAGCCTGACCA 360

[illegible]

561 GATGAGCTTCTGCAAGTGGCCGTCAGGACCGAGTCAGGCAGCTGCATGAAGCCACA 420

2360 GATGGAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACA 2419

421 GGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTCCAGGGTCCCTGGAGA 480

2420 GGGACTTGTCCAGCATCTCAGCACTTCTTCCACGCTGTCCAGGCTCCTGGAGA 2479

481 GAGCCATCTCGCCAACAAGA TGCCCTACTATATCAACCAAGACACCTAAACCTTTCCTC

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2600 TCTCAGCTTATAGGACTGCCATGAACTCCGAGACTGCAGAGGCCCTTTGCTTGGATC 2659

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2660 TCTTGAGCCTGTCAGCTGCATGTGATGCCCTTGGAACGACACCAACCTCAAGCAAATGACC 2719

721 AGCCCATGGATATCCTGCAGATTATTAAATTGTTTGACCACTAATTTATGACCACCGCCGCCAAC

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840

.....CCCCCCTCCGAGAAATGGTTC 2839

Db 2840 TGAATGTTATGATACGAGGAGGAAACAGGAGGATCCGTCGTCTTTTAAACTGGCA 2899
Qy 901 TCATTTCCCTGTGTAAGACATTTGGAAACAGATACATCTTTTCAAGCAAGTG 960
Db 2900 TCATTTCCCTGTGTAAGACATTTGGAAACAGATACATCTTTTCAAGCAAGTG 2959
Qy 961 CAAAGTTCAACAGATTTTGTGACCGAGGAGCTGGGCTCCTTCTGATGATTTATCC 1020
Db 2960 CAAAGTTCAACAGATTTTGTGACCGAGGAGCTGGGCTCCTTCTGATGATTTATCC 3019
Qy 1021 AAATTTCCAAAGACAGTTGGGTGAAGTTGATCTTTTGGGGGAGTAACATGAGCCAACTG 1080
Db 3020 AAATTTCCAAAGACAGTTGGGTGAAGTTGATCTTTTGGGGGAGTAACATGAGCCAACTG 3079
Qy 1081 TCCGGAGCTGCTTCCATTTTGTGTAATTAAGCCAGATGAGAGCGGCTCTTCTTCAAG 1140
Db 3080 TCCGGAGCTGCTTCCATTTTGTGTAATTAAGCCAGATGAGAGCGGCTCTTCTTCAAG 3139
Qy 1141 ACTGAGTGAAGCTGGAACCCAGTCCATGATGATGCTGGCTCCGTCGACAGAGTGGCTG 1200
Db 3140 ACTGAGTGAAGCTGGAACCCAGTCCATGATGATGCTGGCTCCGTCGACAGAGTGGCTG 3199
Qy 1201 CTGCAAGAACTGCAAGCATGAGGCAAGTGAACATCTGCAAGAGTGTCCAAATCATTG 1260
Db 3200 CTGCAAGAACTGCAAGCATGAGGCAAGTGAACATCTGCAAGAGTGTCCAAATCATTG 3259
Qy 1261 GATTCAAGTACAGAGTCTTAAAGCACTTAAATATGATGATCTGCCAAAGCTGCTTTT 1320
Db 3260 GATTCAAGTACAGAGTCTTAAAGCACTTAAATATGATGATCTGCCAAAGCTGCTTTT 3319
Qy 1321 CTGATCGAGTTGCAAAAGGCAATAAATGCACTATCCATGATGGAATATGCACTCGCA 1380
Db 3320 CTGATCGAGTTGCAAAAGGCAATAAATGCACTATCCATGATGGAATATGCACTCGCA 3379
Qy 1381 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGTACTTAAATAAATTTGCAACCA 1440
Db 3380 CTACATCAGAGAGAGATGTTGAGACTTTGCCAAGTACTTAAATAAATTTGCAACCA 3439
Qy 1441 AAAGTATTTTGGCAAGATCCCGAATGGGCTACCTCCAGTGCAGACTGTCTTAAAG 1500
Db 3440 AAAGTATTTTGGCAAGATCCCGAATGGGCTACCTCCAGTGCAGACTGTCTTAAAG 3499
Qy 1501 G 1501
Db 3500 G 3500

RESULT 5
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845.416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 100.0%; Score 1501; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTCTACGAAACAGAGCTGAGAGGTCATATCTGAGTGGGAAAAATGAACTGCACCTCG 60
Db 2327 TTCTACGAAACAGAGCTGAGAGGTCATATCTGAGTGGGAAAAATGAACTGCACCTCG 2386
Qy 61 CTGACCTGGCAGAGAAAAATAGATGAGACCTTTGAAAGCTCCAGAACTTCAAGAGCCA 120
Db 2387 CTGACCTGGCAGAGAAAAATAGATGAGACCTTTGAAAGCTCCAGAACTTCAAGAGGCCA 2446
Qy 121 CGGATGAGCTGGACCTCAAGCTGGGCCAAGCTGAGGTATCATGAAGGATCTGGGAGCCG 180
Db 2447 CGGATGAGCTGGACCTCAAGCTGGGCCAAGCTGAGGTATCATGAAGGATCTGGGAGCCG 2506
Qy 181 TGGGCGATCTCTCTGATGACTCTCTCAAGATCACTTCGAGAAAGTCAAGGACCTTCAAG 240
Db 2507 TGGGCGATCTCTCTGATGACTCTCTCAAGATCACTTCGAGAAAGTCAAGGACCTTCAAG 2566
Qy 241 GAGAAATTTGCGCTCTGAAAGAGAACTGAGCCACGTCAATGACCTTGTGCGCAGCTTA 300
Db 2567 GAGAAATTTGCGCTCTGAAAGAGAACTGAGCCACGTCAATGACCTTGTGCGCAGCTTA 2626
Qy 301 CCACCTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAGCTGGAAGACCTGAACACCA 360
Db 2627 CCACCTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAGCTGGAAGACCTGAACACCA 2686
Qy 361 GATGAAAGCTTCTGACAGTGGCCGTGAGAGACGAGTCAAGGAGCTGATGAAGCCACA 420
Db 2687 GATGAAAGCTTCTGACAGTGGCCGTGAGAGACGAGTCAAGGAGCTGATGAAGCCACA 2746
Qy 421 GGGACTTTGGTCCAGCATCTCAGCATCTTCTTCCAGCTGTGTCAGGCTCCCTGGAGGA 480
Db 2747 GGGACTTTGGTCCAGCATCTCAGCATCTTCTTCCAGCTGTGTCAGGCTCCCTGGAGGA 2806
Qy 481 GAGCATCTGCGCCAAACAAAGTGCCTATATCAACCAAGAGCTAAACAACTTCT 540
Db 2807 GAGCATCTGCGCCAAACAAAGTGCCTATATCAACCAAGAGCTAAACAACTTCT 2866
Qy 541 GGGACATCCCAAAATGACAGAGCTTACAGCTTTTATGATGATGATGATGATGATGAT 600
Db 2867 GGGACATCCCAAAATGACAGAGCTTACAGCTTTTATGATGATGATGATGATGATGAT 2926
Qy 601 TCTGAGCTTATAGACCTGCAATGAACTCCGAAAGCTGCAAGAGGCTTTGCTTGAATC 660
Db 2927 TCTGAGCTTATAGACCTGCAATGAACTCCGAAAGCTGCAAGAGGCTTTGCTTGAATC 2986
Qy 661 TCTTGAAGCTGTGACGTGACATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Db 2987 TCTTGAAGCTGTGACGTGACATGATGATGATGATGATGATGATGATGATGATGATGAT 3046
Qy 721 AGCCATGATATCTGACATATTAATTTTGAACCACTATTTATGACCGCTGAGC 780
Db 3047 AGCCATGATATCTGACATATTAATTTTGAACCACTATTTATGACCGCTGAGC 3106
Qy 781 AAGACCAACAAATTTGCTCAACGTCCTCTGCTGCTGATATGATGATGATGATGATGAT 840
Db 3107 AAGACCAACAAATTTGCTCAACGTCCTCTGCTGCTGATATGATGATGATGATGATGAT 3166
Qy 841 TGAATGTTATGATACGGAAGAGAAACAGAGAGATCCCGTCTCTTTTAAACTGGCA 900
Db 3167 TGAATGTTATGATACGGAAGAGAAACAGAGAGATCCCGTCTCTTTTAAACTGGCA 3226
Qy 901 TCATTTCCCTGTGTAAGACATTTGGAAACAGATACATCTTTTCAAGCAAGTG 960
Db 3227 TCATTTCCCTGTGTAAGACATTTGGAAACAGATACATCTTTTCAAGCAAGTG 3286
Qy 961 CAAAGTTCAACAGATTTTGTGACCGAGGAGCTGGGCTCCTTCTGATGATTTATCC 1020
Db 3287 CAAAGTTCAACAGATTTTGTGACCGAGGAGCTGGGCTCCTTCTGATGATTTATCC 3346
Qy 1021 AAATTTCCAAAGACAGTTGGGTGAAGTTGATCTTTTGGGGGAGTAACATGAGCCAACTG 1080
Db 3347 AAATTTCCAAAGACAGTTGGGTGAAGTTGATCTTTTGGGGGAGTAACATGAGCCAACTG 3406
Qy 1081 TCCGGAGCTGCTTCCATTTTGTGTAATTAAGCCAGATGAGAGCGGCTCTTCTTCAAG 1140

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Db      3407 TCCGAGCTGCTCCCAATTTGCTAATATATAAGCCAGATGCAAGCCGCTCTTCTAG 3466
Qy      1141 ACTGATATGAGCTGGAATCCCGAGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTG 1200
Db      3467 ACTGATATGAGCTGGAATCCCGAGTCCATGCTGTGGCTGCCCTCTGCAAGAGTGGCTG 3526
Qy      1201 CTGCAAGAACTGCCAAGCATCAGGCCAAATGTAACTCTGCAAGAGTGTCAATCATTTG 1260
Db      3527 CTGCAAGAACTGCCAAGCATCAGGCCAAATGTAACTCTGCAAGAGTGTCAATCATTTG 3586
Qy      1261 GATTCAGGTACAGAGTCTTAAAGCATTTTAATTAATGACATCTGCGCAAGTGTCTTTT 1320
Db      3587 GATTCAGGTACAGAGTCTTAAAGCATTTTAATTAATGACATCTGCGCAAGTGTCTTTT 3646
Qy      1321 CTGCTCAGTGTGCAAAAGGCCATTAATGTCACTATCCCATGCGGAATATGCACTCCCA 1380
Db      3647 CTGCTCAGTGTGCAAAAGGCCATTAATTAATGCACTATCCCATGCGGAATATGCACTCCCA 3706
Qy      1381 CTACATCAGAGAAAGATGTTGCAAGCTTTGCGCAAGGTACTTAAATAATTTGCAACCA 1440
Db      3707 CTACATCAGAGAAAGATGTTGCAAGCTTTGCGCAAGGTACTTAAATAATTTGCAACCA 3766
Qy      1441 AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTGCGCAAGTGTGCAAGTGTGAGAG 1500
Db      3767 AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTGCGCAAGTGTGCAAGTGTGAGAG 1501
Qy      1501 G 1501
Db      3827 G 3827

RESULT 6
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match      100.0%; Score 1501; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTCTACGAAAGACAGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAACCTGACATCCG 60
Db      2468 TTCTACGAAAGACAGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAACCTGACATCCG 2527
Qy      61 CTGACTGCGCAGAGAAAAATAGATAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCA 120
Db      2528 CTGACTGCGCAGAGAAAAATAGATAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCA 2587
Qy      121 CGGATGAGCTGSACTCAAGCTGCGCAAGCTGAGTGAATGATCAAGGATCTCTGGCAGCCG 180
Db      2588 CGGATGAGCTGSACTCAAGCTGCGCAAGCTGAGTGAATGATCAAGGATCTCTGGCAGCCG 2647
Qy      181 TGGGCGATCTCTCTCAATTAAGTCTCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTGGAG 240
Db      2648 TGGGCGATCTCTCTCAATTAAGTCTCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTGGAG 2707

Qy      241 GAGAAATTGCGCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGCGCAGCTTA 300
Db      2708 GAGAAATTGCGCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGCGCAGCTTA 2767
Qy      301 CCACTTTGGGCAATTAGACTCTTCACTGTAAACCTCAGACCTTGGAGAACTGAAACCA 360
Db      2768 CCACTTTGGGCAATTAGACTCTTCACTGTAAACCTCAGACCTTGGAGAACTGAAACCA 2827
Qy      361 GATGAACTTCTGCAAGTGGCCGTCGAGAGCCGAGTCAAGGCACTGTGATGAACCCACA 420
Db      2828 GATGAACTTCTGCAAGTGGCCGTCGAGAGCCGAGTCAAGGCACTGTGATGAACCCACA 2887
Qy      421 GGGATTTTGGTTCAGCATCTCAGCACTTTCTTTTCAAGTGTTCAGAGTCTCTGGAGA 480
Db      2888 GGGATTTTGGTTCAGCATCTCAGCACTTTCTTTTCAAGTGTTCAGAGTCTCTGGAGA 2947
Qy      481 GAGCATCTCGCCAAACAAAGTGGCCATATATCAACACAGACCTCAACAACTTGTCT 540
Db      2948 GAGCATCTCGCCAAACAAAGTGGCCATATATCAACACAGACCTCAACAACTTGTCT 3007
Qy      541 GGGACCATCCCAAAATGACAGAGCTTACAGAGTCTTACAGTCTGACCTGATTAATGTGAGAT 600
Db      3008 GGGACCATCCCAAAATGACAGAGCTTACAGAGTCTTACAGTCTGATTAATGTGAGAT 3067
Qy      601 TCTCAGCTTATAGGACTGCGCATGAAACTCCGAAAGCTGCAAGAGCCCTTGGTGGATC 660
Db      3068 TCTCAGCTTATAGGACTGCGCATGAAACTCCGAAAGCTGCAAGAGCCCTTGGTGGATC 3127
Qy      661 TCTTGAAGCTGTGAGCTGATGATGCTTGGACCAAGCAACCTCAAGCAAAATGAGC 720
Db      3128 TCTTGAAGCTGTGAGCTGATGATGCTTGGACCAAGCAACCTCAAGCAAAATGAGC 3187
Qy      721 AGCCATGAGTATCTGCAAGTATTAATTTGTTGACCACTAATTATGACCGCTGGAGC 780
Db      3188 AGCCATGAGTATCTGCAAGTATTAATTTGTTGACCACTAATTATGACCGCTGGAGC 3247
Qy      781 AAGAGCAACAATTTGATCAAGTCCCTCTGCGCTGATATGATGTCGAACCTGGCTGC 840
Db      3248 AAGAGCAACAATTTGATCAAGTCCCTCTGCGCTGATATGATGTCGAACCTGGCTGC 3307
Qy      841 TGAATGTTATGATACGGAGCGAAGAGAGATCCGTCTCTTTTAAACCTGGCA 900
Db      3308 TGAATGTTATGATACGGAGCGAAGAGAGATCCGTCTCTTTTAAACCTGGCA 3367
Qy      901 TCAATTCCTGCTGTAAGCAATTTGAAAGCAATTTGAAAGCAATTTGAAAGCAATTTG 960
Db      3368 TCAATTCCTGCTGTAAGCAATTTGAAAGCAATTTGAAAGCAATTTGAAAGCAATTTG 3427
Qy      961 CAAATTCAACAGATTTTGTGACCAAGCGCAGCTGGGCTCTCTTCTGATGATTTATCC 1020
Db      3428 CAAATTCAACAGATTTTGTGACCAAGCGCAGCTGGGCTCTCTTCTGATGATTTATCC 3487
Qy      1021 AAATTCGAAGACAGTGGGTGAAGTTGATCTTTTGGGGGCAATTAATTAAGCCCAAGT 1080
Db      3488 AAATTCGAAGACAGTGGGTGAAGTTGATCTTTTGGGGGCAATTAATTAAGCCCAAGT 3547
Qy      1081 TCCGAGCTGCTTCCCAATTTGCTAATATTAAGCCAGAGATCGAAGCGGCTCTTCTAG 1140
Db      3548 TCCGAGCTGCTTCCCAATTTGCTAATATTAAGCCAGAGATCGAAGCGGCTCTTCTAG 3607
Qy      1141 ACTGATAGAGCTGGAACCCAGATCCATGCTGTGGCTGCCCTGTCTGACAGAGTGGCTG 1200
Db      3608 ACTGATAGAGCTGGAACCCAGATCCATGCTGTGGCTGCCCTGTCTGACAGAGTGGCTG 3667
Qy      1201 CTGCAAGAACTGCCAAGCATCAGGCCAAATGTAACTCTGCAAGAGTGTCAATCATTTG 1260
Db      3668 CTGCAAGAACTGCCAAGCATCAGGCCAAATGTAACTCTGCAAGAGTGTCAATCATTTG 3727
Qy      1261 GATTCAGGTACAGAGTCTTAAAGCATTTTAATTAATGACATCTGCGCAAGTGTCTTTT 1320
Db      3728 GATTCAGGTACAGAGTCTTAAAGCATTTTAATTAATGACATCTGCGCAAGTGTCTTTT 3787
Qy      1321 CTGCTCAGTGTGCAAAAGGCCATTAATTAATGACATCTGCGCAAGTGTCTTTT 1380
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Db 3788 CTGGTCGAGTGGCAAAAGGCCATAAATGACATACCCATGATGGAAATATGCACTCCGA 3847
Qy 1381 CTACATACGAGAGAGATGCTTGAGACTTGGCAAGGTACTAATAAACAATTTGSAACCA 1440
Db 3848 CTACATACGAGAGAGATGCTTGAGACTTGGCAAGGTACTAATAAACAATTTGSAACCA 3907
Qy 1441 AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTCCAGTGCAGACTGTCTTAGAG 1500
Db 3908 AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTCCAGTGCAGACTGTCTTAGAG 3967
Qy 1501 G 1501
Db 3968 G 3968

RESULT 7
US-09-845-416-2
Sequence 2, Application US/09845416
Publication No. US2003017312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
FILE REFERENCE: DB1142
CURRENT APPLICATION NUMBER: US/09/845,416
PRIOR FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 4182
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTCTACGAAAGCAGGCTGAGAGGTCAATCTAGTGGGAAATTTGAACCTGCATCTCG 60
Db 2651 TTCTACGAAAGCAGGCTGAGAGGTCAATCTAGTGGGAAATTTGAACCTGCATCTCG 2710
Qy 61 CTGACTGGCAGAGAAAATATGATGACCTTTGAAAGCTCCAGGAATTTCAAGAGGCCA 120
Db 2711 CTGACTGGCAGAGAAAATATGATGACCTTTGAAAGCTCCAGGAATTTCAAGAGGCCA 2770
Qy 121 CGGATGAGCTGGAGCTCAAGCTGGGCGCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCG 180
Db 2771 CGGATGAGCTGGAGCTCAAGCTGGGCGCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCG 2830
Qy 181 TGGCGCATCTCTCTGATGACTCTCTCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAG 240
Db 2831 TGGCGCATCTCTCTGATGACTCTCTCAAGATCACTTCGAGAAAGTCAAGGCACTTCGAG 2890
Qy 241 GAGAAATTTGCCCTCTGAAAGAAAGTGAAGCAGTCAATGACCTTGGCTGCGCAGCTTA 300
Db 2891 GAGAAATTTGCCCTCTGAAAGAAAGTGAAGCAGTCAATGACCTTGGCTGCGCAGCTTA 2950
Qy 301 CCACCTTTGGGGAATTCAGCTCTCAACGTTAATCTCAGACATCTGGAAGACCTGGAACACA 360
Db 2951 CCACCTTTGGGGAATTCAGCTCTCAACGTTAATCTCAGACATCTGGAAGACCTGGAACACA 3010
Qy 361 GATGAAAGCTTCTCAGAGTGGCCGTGAGAGCCGAGTCAAGCAGCTGATGAAGCCACA 420
Db 3011 GATGAAAGCTTCTCAGAGTGGCCGTGAGAGCCGAGTCAAGCAGCTGATGAAGCCACA 3070
Qy 421 GGAACCTTTGGTCAAGCATCTAGCACTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGAGGA 480
Db 3071 GGAACCTTTGGTCAAGCATCTAGCACTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGAGGA 3130

Qy 481 GAGCCATCTGCGCAAAACAAGTCCCTTAATATATCAACAGAGCTCAACAACCTTCT 540
Db 3131 GAGCCATCTGCGCAAAACAAGTCCCTTAATATATCAACAGAGCTCAACAACCTTCT 3190
Qy 541 GGAACATCCCAAAATGACAGAGCTTACAGAGTCTTTAGCTGACTGAAATATGTCAGAT 600
Db 3191 GGAACATCCCAAAATGACAGAGCTTACAGAGTCTTTAGCTGACTGAAATATGTCAGAT 3250
Qy 601 TCTCAGCTTATAGGACTGCGCAATGAAACCTCGAAGCTGCAAGAGCCCTTGTGATGTC 660
Db 3251 TCTCAGCTTATAGGACTGCGCAATGAAACCTCGAAGCTGCAAGAGCCCTTGTGATGTC 3310
Qy 661 TCTTGAAGCTGTGAGCTGATGATGATGCTTGAACAGACACAACCTCAAGCAAAATGACC 720
Db 3311 TCTTGAAGCTGTGAGCTGATGATGATGCTTGAACAGACACAACCTCAAGCAAAATGACC 3370
Qy 721 AGCCATGATATCTCTGCAATTTAATTTTGGACCACTAATTTTGAACCGCTGAGAC 780
Db 3371 AGCCATGATATCTCTGCAATTTAATTTTGGACCACTAATTTTGAACCGCTGAGAC 3430
Qy 781 AAGAGCAACAATTTGGTCAAGTCCCTCTGCGGTGATATGTCGTAACCTGGCTGC 840
Db 3431 AAGAGCAACAATTTGGTCAAGTCCCTCTGCGGTGATATGTCGTAACCTGGCTGC 3490
Qy 841 TGAATGTTATGATACGGAGCAAGAGAGATCCGTCTCTTTTAAACTGGCA 900
Db 3491 TGAATGTTATGATACGGAGCAAGAGAGATCCGTCTCTTTTAAACTGGCA 3550
Qy 901 TCAATTTCCCTGTGTAAGACATTTGGAAAGCAAGTACAGATACCTTTTCAAGCAAGTG 960
Db 3551 TCAATTTCCCTGTGTAAGACATTTGGAAAGCAAGTACAGATACCTTTTCAAGCAAGTG 3610
Qy 961 CAAGTTCAACAGATTTTGTGACCAAGGCGAGGCTGCTCTCTGATATCTATCC 1020
Db 3611 CAAGTTCAACAGATTTTGTGACCAAGGCGAGGCTGCTCTCTGATATCTATCC 3670
Qy 1021 AAATTTCCAAAGCAGTTGGGTGATGATCTTTGGGGGAGTAACTTGAAGCCAAAGTG 1080
Db 3671 AAATTTCCAAAGCAGTTGGGTGATGATCTTTGGGGGAGTAACTTGAAGCCAAAGTG 3730
Qy 1081 TCCGAGCTGCTTCAATTTGCTAATTAATTAAGCAGAGATGAAAGCGGCTCTTCTTAC 1140
Db 3731 TCCGAGCTGCTTCAATTTGCTAATTAATTAAGCAGAGATGAAAGCGGCTCTTCTTAC 3790
Qy 1141 ACTGATGAGCTGGAACCCCAAGTCCATGCTGCTGCGGCTCTGACAGAGTGCTG 1200
Db 3791 ACTGATGAGCTGGAACCCCAAGTCCATGCTGCTGCGGCTCTGACAGAGTGCTG 3850
Qy 1201 CTGCAGAAACTGCGCAAGCATGAGCCCAATGTAATCTGCAAGAGTGTCCAATCATTTG 1260
Db 3851 CTGCAGAAACTGCGCAAGCATGAGCCCAATGTAATCTGCAAGAGTGTCCAATCATTTG 3910
Qy 1261 GATTCAAGTACAGAGTCTTAAAGCACTTAAATTAATGACATCTGCAAGAGTCTTTT 1320
Db 3911 GATTCAAGTACAGAGTCTTAAAGCACTTAAATTAATGACATCTGCAAGAGTCTTTT 3970
Qy 1321 CTGGTCAAGTTGCAAAAGGCAATTAATGCACTATCCATGCTGGAATATTTGCACTCCGA 1380
Db 3971 CTGGTCAAGTTGCAAAAGGCAATTAATGCACTATCCATGCTGGAATATTTGCACTCCGA 4030
Qy 1381 CTACATCAGAGAGATGTTGAGACTTTGCAAGGTACTAATAAACAATTTTGAACCA 1440
Db 4031 CTACATCAGAGAGATGTTGAGACTTTGCAAGGTACTAATAAACAATTTTGAACCA 4090
Qy 1441 AAAGTATTTTGGCAAGCATCCCGAATGGGCTAATCTGCAAGTCAAGCTGTCTTAGAGG 1500
Db 4091 AAAGTATTTTGGCAAGCATCCCGAATGGGCTAATCTGCAAGTCAAGCTGTCTTAGAGG 4150
Qy 1501 G 1501
Db 4151 G 4151

RESULT 8
US-09-845-416-31
; Sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-31

Query Match 100.0%; Score 1501; DB 10; Length 4476;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	TTCTACGAAAGAGGCTGAGAGTCAATACGAGTGGGAAATTTGAACCTGACCTCG	60
DB	2735	TTCTACGAAAGAGGCTGAGAGTCAATACGAGTGGGAAATTTGAACCTGACCTCG	2794
QY	61	CTGACTGCGAGAGAAATAGATGAGACCTTGAAGAATCCAGGAACTTCAAGAGCCA	120
DB	2795	CTGACTGCGAGAGAAATAGATGAGACCTTGAAGAATCCAGGAACTTCAAGAGCCA	2854
QY	121	CGGATGAGCTGAGCTTCAAGCTGCGCAAGCTGAGGTATCAAGGATCTTGGCAGCCG	180
DB	2855	CGGATGAGCTGAGCTTCAAGCTGCGCAAGCTGAGGTATCAAGGATCTTGGCAGCCG	2914
QY	181	TGGGGAGATCTCTCAATGACCTCTCCAAAGATCACCTGAGAGAAATCAAGGACTTCCAG	240
DB	2915	TGGGGAGATCTCTCAATGACCTCTCCAAAGATCACCTGAGAGAAATCAAGGACTTCCAG	2974
QY	241	GAGAAATTTGCGCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGTGCGCAGCTTA	300
DB	2975	GAGAAATTTGCGCTCTGAAAGAGAAAGTGAAGCCAGTCAATGACCTTGTGCGCAGCTTA	3034
QY	301	CCACTTTGGGCAATTGAGCTCTCAACGATTAACCTTGAGCACTTGGAAAGCTTGAACACA	360
DB	3035	CCACTTTGGGCAATTGAGCTCTCAACGATTAACCTTGAGCACTTGGAAAGCTTGAACACA	3094
QY	361	GATGGAAGCTTCTGAGAGGTGCGCGTGAAGACCGAGTCAAGGAGCTGATGAAGCCACA	420
DB	3095	GATGGAAGCTTCTGAGAGGTGCGCGTGAAGACCGAGTCAAGGAGCTGATGAAGCCACA	3154
QY	421	GGGACTTTTGGTCAGAGATCTGACACTTTCTTCCACGTCGTCTCAAGGGTCCCTGGAGA	480
DB	3155	GGGACTTTTGGTCAGAGATCTGACACTTTCTTCCACGTCGTCTCAAGGGTCCCTGGAGA	3214
QY	481	GAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAAAACAATGCTGCT	540
DB	3215	GAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAAAACAATGCTGCT	3274
QY	541	GGGACCATCCCAAAATGACAGAGCTTACCAAGCTTTAGCTGACCTGAATTAATGTCAGAT	600
DB	3275	GGGACCATCCCAAAATGACAGAGCTTACCAAGCTTTAGCTGACCTGAATTAATGTCAGAT	3334
QY	601	TCTCAGCTTATAGAGATGCGCATGAAATCTCGAAGACTGCAAGAGCCCTTTGCTTGATC	660
DB	3335	TCTCAGCTTATAGAGATGCGCATGAAATCTCGAAGACTGCAAGAGCCCTTTGCTTGATC	3394
QY	661	TCTTGAAGCTGTAGCTGATGATGCTTGGACACAGACCAACCTCAAGCAAAATGACCC	720
DB	3395	TCTTGAAGCTGTAGCTGATGATGCTTGGACACAGACCAACCTCAAGCAAAATGACCC	3454

QY	721	AGCCCATGATATCTCGACAGATTATTAATGTTTGAACCACTATTAATGACCGCTGGAGC	780
DB	3455	AGCCCATGATATCTCGACAGATTATTAATGTTTGAACCACTATTAATGACCGCTGGAGC	3514
QY	781	AAAGACAAACAAATTTGGTCAACGTCCTCTGCGGTGGAATAGTGTGAACTGGCTGC	840
DB	3515	AAAGACAAACAAATTTGGTCAACGTCCTCTGCGGTGGAATAGTGTGAACTGGCTGC	3574
QY	841	TGAATGTTTATGATGAGGAGCAACAGGAGAGATCCGTCTGTCTTTTAAACTGGCA	900
DB	3575	TGAATGTTTATGATGAGGAGCAACAGGAGAGATCCGTCTGTCTTTTAAACTGGCA	3634
QY	901	TCATTTCCCTGTGTAAAGCAATTTGGAAGACAAATACATACCTTTTCAAGCAATGG	960
DB	3635	TCATTTCCCTGTGTAAAGCAATTTGGAAGACAAATACATACCTTTTCAAGCAATGG	3694
QY	961	CAAGTTCAACAGATTTTGTGACCAAGGCGAGGCTGGGCTCTTCTGACATGATCTATCC	1020
DB	3695	CAAGTTCAACAGATTTTGTGACCAAGGCGAGGCTGGGCTCTTCTGACATGATCTATCC	3754
QY	1021	AAATTTCCAAAGACAGTTGGTGAAGTTGATCTCTTTGGGGCAGTAACTTGAAGCCAAATG	1080
DB	3755	AAATTTCCAAAGACAGTTGGTGAAGTTGATCTCTTTGGGGCAGTAACTTGAAGCCAAATG	3814
QY	1081	TCCGAGCTGCTTCAATTTGCTAATATTAAGCCAGATGCAAGCGGCTCTTCTAG	1140
DB	3815	TCCGAGCTGCTTCAATTTGCTAATATTAAGCCAGATGCAAGCGGCTCTTCTAG	3874
QY	1141	ACTGATGAGACCTGGAACCCAGTCCATGATGATGCTGCGCTGCTGACAGAGTGCTG	1200
DB	3875	ACTGATGAGACCTGGAACCCAGTCCATGATGATGCTGCGCTGCTGACAGAGTGCTG	3934
QY	1201	CTGCAGAACTGCCAAGCATCAGGCCAATATGTAATCTGCAAGAGTGTCAATCATTTG	1260
DB	3935	CTGCAGAACTGCCAAGCATCAGGCCAATATGTAATCTGCAAGAGTGTCAATCATTTG	3994
QY	1261	GATTGAGTACAGAGTCTAAAGCACTTTAATTAATGACATCTGCAAGAGTGTCAATCATTTG	1320
DB	3995	GATTGAGTACAGAGTCTAAAGCACTTTAATTAATGACATCTGCAAGAGTGTCAATCATTTG	4054
QY	1321	CTGATCAGATGCAAAAGGCCATTAATGACATATCCATGATGGAATATTTGACCTCGA	1380
DB	4055	CTGATCAGATGCAAAAGGCCATTAATGACATATCCATGATGGAATATTTGACCTCGA	4114
QY	1381	CTACATCAGAGAGATGTTGAGACTTTGCAAGGATCTAATAAAACAAATTTGAAACCA	1440
DB	4115	CTACATCAGAGAGATGTTGAGACTTTGCAAGGATCTAATAAAACAAATTTGAAACCA	4174
QY	1441	AAAGTATTTTTCGAAAGATCCCGAATGGCTTACCTGCGAGCTGCTTTAGAGG	1500
DB	4175	AAAGTATTTTTCGAAAGATCCCGAATGGCTTACCTGCGAGCTGCTTTAGAGG	4234
QY	1501	G 1501	
DB	4235	G 4235	

RESULT 9
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30

LENGTH: 4498
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 100.0%; Score 1501; DB 10; Length 4498;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TTCTACGAAACAGGCTGAGAGGCTCACTAGTGGGAAAAATTGAACCTGCACTCCG 60
DB 2757 TTCTACGAAACAGGCTGAGAGGCTCACTAGTGGGAAAAATTGAACCTGCACTCCG 2816
QY 61 CTGACGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCCAGGAACCTTGAAGGCGCA 120
DB 2817 CTGACGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCCAGGAACCTTGAAGGCGCA 2876
QY 121 CGGATGAGCTGAGACTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTGGGACCCCG 180
DB 2877 CGGATGAGCTGAGACTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTGGGACCCCG 2936
QY 181 TGGGGGATCTCTCTCACTTGAATCTCTCCAAAGATCACTCGAAGAAATCAAGGCACTTCCAG 240
DB 2937 TGGGGGATCTCTCTCACTTGAATCTCTCCAAAGATCACTCGAAGAAATCAAGGCACTTCCAG 2996
QY 241 GAGAAATTGGCGCTCTGAAAGAAAGTGAAGCACTGCAATGACCTTGGCCAGCTTA 300
DB 2997 GAGAAATTGGCGCTCTGAAAGAAAGTGAAGCACTGCAATGACCTTGGCCAGCTTA 3056
QY 301 CCACTTTGGGCAATTCAGCTCTCAACCGTATTAACCTGAGCACTCTGAGAGACCTGAACACA 360
DB 3057 CCACTTTGGGCAATTCAGCTCTCAACCGTATTAACCTGAGCACTCTGAGAGACCTGAACACA 3116
QY 361 GATGAGAGCTTCTGAGGTGGCGCTGAGAGACCGAGTCAAGGAGCTGATGAAGCCCA 420
DB 3117 GATGAGAGCTTCTGAGGTGGCGCTGAGAGACCGAGTCAAGGAGCTGATGAAGCCCA 3176
QY 421 GGGACTTTGGTCCAGCATCTGAGCACTTTCTTCCACGCTGTCAGAGGTCCTGGGAGA 480
DB 3177 GGGACTTTGGTCCAGCATCTGAGCACTTTCTTCCACGCTGTCAGAGGTCCTGGGAGA 3236
QY 481 GAGCATCTCGCCAAACAAAGTGCCCTACTATATCAACACAGACTCAAAACAACTTGTCT 540
DB 3237 GAGCATCTCGCCAAACAAAGTGCCCTACTATATCAACACAGACTCAAAACAACTTGTCT 3296
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAAT 600
DB 3297 GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAAT 3356
QY 601 TCTGAGCTTATAGAGCTGCGCATGAAACCTCCGAAAGCTGCAAGGCGCTTGGCTGATC 660
DB 3357 TCTGAGCTTATAGAGCTGCGCATGAAACCTCCGAAAGCTGCAAGGCGCTTGGCTGATC 3416
QY 661 TCTTGAAGCTCTGAGCTGATGATGCTTGAAGCAAGCACTCAAGCAAAATGAGC 720
DB 3417 TCTTGAAGCTCTGAGCTGATGATGCTTGAAGCAAGCACTCAAGCAAAATGAGC 3476
QY 721 AGCCCATGATATCTGCAAGATTATTAATGTTGACCACTATTATGACCGCTGAGC 780
DB 3477 AGCCCATGATATCTGCAAGATTATTAATGTTGACCACTATTATGACCGCTGAGC 3536
QY 781 AAGAGCAAAATTTGGTCAACGCTCTCTGCTGCTGATATGCTGAACTGGCTGC 840
DB 3537 AAGAGCAAAATTTGGTCAACGCTCTCTGCTGCTGATATGCTGAACTGGCTGC 3596
QY 841 TGAATGTTATGATACGGGACGAAACAGGAGGATCCGTCCTGCTTTTAAACTGGCA 900
DB 3597 TGAATGTTATGATACGGGACGAAACAGGAGGATCCGTCCTGCTTTTAAACTGGCA 3656
QY 901 TCAATTTCCCTGTGAAGCACTTTGGAAGACAGATACGATACCTTTTCAAGCAAGTGC 960
DB 3657 TCAATTTCCCTGTGAAGCACTTTGGAAGACAGATACGATACCTTTTCAAGCAAGTGC 3716
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QY 961 CAAGTTCAACAGATTTTGTGACCAAGCGAGCTGGGCTCTCTTCTGATGATTTCTATCC 1020
DB 3717 CAAGTTCAACAGATTTTGTGACCAAGCGAGCTGGGCTCTCTTCTGATGATTTCTATCC 3776
QY 1021 AAATTTCCAAAGACGTTGGGTGAAGTTGATCTCTTTGGGGGCAATTAATTAAGCAAGTG 1080
DB 3777 AAATTTCCAAAGACGTTGGGTGAAGTTGATCTCTTTGGGGGCAATTAATTAAGCAAGTG 3836
QY 1081 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCCAGAGATGGAAGGCGGCTCTTCCCTG 1140
DB 3837 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCCAGAGATGGAAGGCGGCTCTTCCCTG 3896
QY 1141 ACTGATGAGACTGGAACCCAGTCATGATGAGCTGCGCCCTCTGCAAGAGTGGCTG 1200
DB 3897 ACTGATGAGACTGGAACCCAGTCATGATGAGCTGCGCCCTCTGCAAGAGTGGCTG 3956
QY 1201 CTGCAAAACCTGCCAAGCATCAGGCGCAATGATTAACATCTGCAAAAGTGTCCATCATTTG 1260
DB 3957 CTGCAAAACCTGCCAAGCATCAGGCGCAATGATTAACATCTGCAAAAGTGTCCATCATTTG 4016
QY 1261 GATTCAGGTACAGAGTCTAAGCACTTATTAATTAAGATCATGTCGCAAGGCTGCTTTT 1320
DB 4017 GATTCAGGTACAGAGTCTAAGCACTTATTAATTAAGATCATGTCGCAAGGCTGCTTTT 4076
QY 1321 CTGGTCAGATTGCAAAAGGCGCATTAATGACATATCCCATGAGTGAATATTGCACTCCGA 1380
DB 4077 CTGGTCAGATTGCAAAAGGCGCATTAATGACATATCCCATGAGTGAATATTGCACTCCGA 4136
QY 1381 CTACATCAGAGAAAGATGTTGAGACTTTGCGCAAGATCTAATAAAACAAATTTGCAACCA 1440
DB 4137 CTACATCAGAGAAAGATGTTGAGACTTTGCGCAAGATCTAATAAAACAAATTTGCAACCA 4196
QY 1441 AAAGTATTTTGGCAAGATATCCGGAATGGGCTACCTGCGAGTGAAGCTGCTTGAAGG 1500
DB 4197 AAAGTATTTTGGCAAGATATCCGGAATGGGCTACCTGCGAGTGAAGCTGCTTGAAGG 4256
QY 1501 G 1501
DB 4257 G 4257
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RESULT 10
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication NO. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEROP
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1501; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TTCTACGAAACAGGCTGAGAGGCTCACTAGTGGGAAAAATTGAACCTGCACTCCG 60
DB 3084 TTCTACGAAACAGGCTGAGAGGCTCACTAGTGGGAAAAATTGAACCTGCACTCCG 3143
QY 61 CTGACGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCCAGGAACCTTGAAGGCGCA 120
DB 3144 CTGACGGCAGAGAAAAATAGATGAGACCCCTTGAAGAATCCAGGAACCTTGAAGGCGCA 3203
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QY 121 CGATGAGCTGAGACCTCAAGCTGCGCCAAAGTGAAGTATCAAGGATCCCTGGACGCCG 180
DB 3204 CGATGAGCTGAGACCTCAAGCTGCGCCAAAGTGAAGTATCAAGGATCCCTGGACGCCG 3263
QY 181 TGGGCGATCTCTCTATGACTCTCTCAAGATCACTCGAAGAAAGTCAGGCACTTGGAG 240
DB 3264 TGGGCGATCTCTCTATGACTCTCTCAAGATCACTCGAAGAAAGTCAGGCACTTGGAG 3323
QY 241 GAGAAATGCGCCCTCTGAAGAGAGAGTGAAGCCGTCATGACCTTGGCTCGCAGCTTA 300
DB 3324 GAGAAATGCGCCCTCTGAAGAGAGAGTGAAGCCGTCATGACCTTGGCTCGCAGCTTA 3383
QY 301 CCATTTGGGCAATTCAGCTCTCAACCGTATTAACCTCAGACACTCGAAGACTGAACCA 360
DB 3384 CCATTTGGGCAATTCAGCTCTCAACCGTATTAACCTCAGACACTCGAAGACTGAACCA 3443
QY 361 GATGGAAGCTTTCGAGAGTGGCCGTCGAGAGACCGAGTCAGGCGCTGCATGAAGCCACA 420
DB 3444 GATGGAAGCTTTCGAGAGTGGCCGTCGAGAGACCGAGTCAGGCGCTGCATGAAGCCACA 3503
QY 421 GGGACTTTGGTCCAGCATCTCAGACATTTCTTCCAGTCTGTCCAGGGTCCCTGGAGGA 480
DB 3504 GGGACTTTGGTCCAGCATCTCAGACATTTCTTCCAGTCTGTCCAGGGTCCCTGGAGGA 3563
QY 481 GAGCCATCTTGGCCAAACAAAGTGCCTTACTATATCAACAGAGACTCAAAACATTTGCT 540
DB 3564 GAGCCATCTTGGCCAAACAAAGTGCCTTACTATATCAACAGAGACTCAAAACATTTGCT 3623
QY 541 GGGACCATCCCAAAATGAGAGAGCTTACAGCTTTTACTACTGTAAGTAATGTCAGAT 600
DB 3624 GGGACCATCCCAAAATGAGAGAGCTTACAGCTTTTACTACTGTAAGTAATGTCAGAT 3683
QY 601 TCTCAGCTTATAGAGCTCCCATGAAACTCCGAAAGCTGCAAGAGGCCCTTGTCTGGATC 660
DB 3684 TCTCAGCTTATAGAGCTCCCATGAAACTCCGAAAGCTGCAAGAGGCCCTTGTCTGGATC 3743
QY 661 TCTTGAAGCTGTGAGCTGATGATGCTTGAACAGAGCACTCAAGCAAAATGAC 720
DB 3744 TCTTGAAGCTGTGAGCTGATGATGCTTGAACAGAGCACTCAAGCAAAATGAC 3803
QY 721 AGCCCATGATATCTGAGATTAATTAATTTGTTGACCACTATTTATGACGCCCTGGAGC 780
DB 3804 AGCCCATGATATCTGAGATTAATTAATTTGTTGACCACTATTTATGACGCCCTGGAGC 3863
QY 781 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCTGAGATATGTCGTAATGCTGTCG 840
DB 3864 AAGAGCAACAATTTGGTCAACGTCCTCTCTGCTGAGATATGTCGTAATGCTGTCG 3923
QY 841 TGAATGTTTATGATACGGGAGCAACAGGAGATCCGTCCTGCTTTTAACTGGCA 900
DB 3924 TGAATGTTTATGATACGGGAGCAACAGGAGATCCGTCCTGCTTTTAACTGGCA 3983
QY 901 TCATTTCCCTGTGTAAGCAATTTGGAAGCAAGTAACAGATACCTTTTCAAGCAATGG 960
DB 3984 TCATTTCCCTGTGTAAGCAATTTGGAAGCAAGTAACAGATACCTTTTCAAGCAATGG 4043
QY 961 CAAAGTTCACAGATTTTGTGACCAAGGAGGCTGGGCTCTCTTGTGATGATTTATCC 1020
DB 4044 CAAAGTTCACAGATTTTGTGACCAAGGAGGCTGGGCTCTCTTGTGATGATTTATCC 4103
QY 1021 AAATTTCCAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCAAGTAACATGAGCCAGTG 1080
DB 4104 AAATTTCCAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCAAGTAACATGAGCCAGTG 4163
QY 1081 TCCGAGCTGCTTCATTTGCTAATAATAAGCAGAGATCGAAGCGGCCCTTCTCTAG 1140
DB 4164 TCCGAGCTGCTTCATTTGCTAATAATAAGCAGAGATCGAAGCGGCCCTTCTCTAG 4223
QY 1141 ACTGAGATGAGACTGGAACCCCAAGTCATGATGATGCTGCGCCGCTCGCAAGAGTGGTG 1200
DB 4224 ACTGAGATGAGACTGGAACCCCAAGTCATGATGATGCTGCGCCGCTCGCAAGAGTGGTG 4283

QY 1201 CTGCAGAAACTGCAAGCATCAGGCCAAATATGATCATCTGCAAAAGAGTGTCCAAATCATTG 1260
DB 4284 CTGCAGAAACTGCAAGCATCAGGCCAAATATGATCATCTGCAAAAGAGTGTCCAAATCATTG 4343
QY 1261 GATTGAGATGACAGAGGTCTTAAAGCACTTTAATTAATGATCATCTGCCAAAGTGTCTTTT 1320
DB 4344 GATTGAGATGACAGAGGTCTTAAAGCACTTTAATTAATGATCATCTGCCAAAGTGTCTTTT 4403
QY 1321 CTGATGAGTTGCAAAAGGCAATAAATGACCTATGCCATGATGATGATGATGATGATGATG 1380
DB 4404 CTGATGAGTTGCAAAAGGCAATAAATGACCTATGCCATGATGATGATGATGATGATGATG 4463
QY 1381 CTACATCAGGAGAGATGTTGAGACTTTGCAAGGATGATGATGATGATGATGATGATGATG 1440
DB 4464 CTACATCAGGAGAGATGTTGAGACTTTGCAAGGATGATGATGATGATGATGATGATGATG 4523
QY 1441 AAAGTATTTTGGCAAGCATCCCGAATGGGCTATCCGCAAGTGCACATCTGTTAGAGG 1500
DB 4524 AAAGTATTTTGGCAAGCATCCCGAATGGGCTATCCGCAAGTGCACATCTGTTAGAGG 4583
QY 1501 G 1501
DB 4584 G 4584

RESULT 11

US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 100.0%; Score 1501; DB 10; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTCTAGAAAGCAGGCTGAGAGTCAATTACTGAGTGGAAAAATTTGAACCTGCACTCCG 60
DB 3107 TTCTAGAAAGCAGGCTGAGAGTCAATTACTGAGTGGAAAAATTTGAACCTGCACTCCG 3166
QY 61 CTGACTGCGAGAGAAAATATGATGAGACCTTGAAGAATCCAGAGAACTTCAAGAGCGCA 120
DB 3167 CTGACTGCGAGAGAAAATATGATGAGACCTTGAAGAATCCAGAGAACTTCAAGAGCGCA 3226
QY 121 CGGATGAGCTGGACCTCAAGGCGGCCCAAGTGAAGTATCAAGGATCTCGGCAAGCCG 180
DB 3227 CGGATGAGCTGGACCTCAAGGCGGCCCAAGTGAAGTATCAAGGATCTCGGCAAGCCG 3286
QY 181 TGGGGATCTCCTCATTAATGACTCTCCAAAGATCACTGAGAAAGTCAAGGCACTTGGAG 240
DB 3287 TGGGGATCTCCTCATTAATGACTCTCCAAAGATCACTGAGAAAGTCAAGGCACTTGGAG 3346
QY 241 GAGAAATGGCCCTCTGAAAAGAGAGCGTGAAGCACTGTAATGACTTGCAGGCTTA 300
DB 3347 GAGAAATGGCCCTCTGAAAAGAGAGCGTGAAGCACTGTAATGACTTGCAGGCTTA 3406
QY 301 CCACCTTTGGGATTCAGCTCTCAACGTATTAACCTCAGACACTGAGAGAGACTGAACCA 360
DB 3407 CCACCTTTGGGATTCAGCTCTCAACGTATTAACCTCAGACACTGAGAGAGACTGAACCA 3466

QY 361 GATGAAGCTTCTGAGGTGCGGCGAGAGCCGAGTCAAGGAGCTGATGAGGCCACA 420
DB 3467 GATGAAGCTTCTGAGGTGCGGCGAGAGCCGAGTCAAGGAGCTGATGAGGCCACA 3526
QY 421 GGAATTGCTGAGTCAAGTCTGAGGACCTTTCTTCCAGCTGTGTCCAGGGTCCCTGGAGA 480
DB 3527 GGAATTGCTGAGTCAAGTCTGAGGACCTTTCTTCCAGCTGTGTCCAGGGTCCCTGGAGA 3586
QY 481 GAGCCATCTGCGCCAAACAAAGTCCCTTCTATATCAACCAAGAGACTAAACAACTTCT 540
DB 3587 GAGCCATCTGCGCCAAACAAAGTCCCTTCTATATCAACCAAGAGACTAAACAACTTCT 3646
QY 541 GGGACCATCCCAAAATGACAGAGCTTACAGCTCTTGTAGTCACTGTAATATGACAT 600
DB 3647 GGGACCATCCCAAAATGACAGAGCTTACAGCTCTTGTAGTCACTGTAATATGACAT 3706
QY 601 TCTCAGCTTATAGACTGCGATGAATCTCCGAGACTGACAGAGGCCCTTGTGATC 660
DB 3707 TCTCAGCTTATAGACTGCGATGAATCTCCGAGACTGACAGAGGCCCTTGTGATC 3766
QY 661 TCTTGAAGCTGTCAAGCTGATGATGCTTGGACAGACCAACTCAAGCAAAATGAC 720
DB 3767 TCTTGAAGCTGTCAAGCTGATGATGCTTGGACAGACCAACTCAAGCAAAATGAC 3826
QY 721 AGCCCATGATATCTGAGATTTATATGTTTGAACCACTATTATGACCGGCTGAGC 780
DB 3827 AGCCCATGATATCTGAGATTTATATGTTTGAACCACTATTATGACCGGCTGAGC 3886
QY 781 AAGACCAACAAATTTGATCAACGCTCCTCTGCGTGAATATGATGATGATGATGATG 840
DB 3887 AAGACCAACAAATTTGATCAACGCTCCTCTGCGTGAATATGATGATGATGATGATG 3946
QY 841 TGAATGTTATGATACGAGAGCAAGGAGATCCGTGCTCTTCTTTAACTGGCA 900
DB 3947 TGAATGTTATGATACGAGAGCAAGGAGATCCGTGCTCTTCTTTAACTGGCA 4006
QY 901 TCATTTCCCTGTGTAAGACATTTGGAAGCAAGTACAGATCACTTTCAAGCAAGTG 960
DB 4007 TCATTTCCCTGTGTAAGACATTTGGAAGCAAGTACAGATCACTTTCAAGCAAGTG 4066
QY 961 CAAGTTCAACAGATTTTGTGACGACGAGCTGGGCTCTCTTGTGATGATTTCTATCC 1020
DB 4067 CAAGTTCAACAGATTTTGTGACGACGAGCTGGGCTCTCTTGTGATGATTTCTATCC 4126
QY 1021 AAATTTCAAGACATTTGGGTGAAGTTCATCTTTGGGGGCAATTAAGCCAAAGTG 1080
DB 4127 AAATTTCAAGACATTTGGGTGAAGTTCATCTTTGGGGGCAATTAAGCCAAAGTG 4186
QY 1081 TCCGAGCTGCTTCCAAATTTCTAATAATTAAGCCAGATGGAAGGGGCTCTTCTTGA 1140
DB 4187 TCCGAGCTGCTTCCAAATTTCTAATAATTAAGCCAGATGGAAGGGGCTCTTCTTGA 4246
QY 1141 ACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1200
DB 4247 ACTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 4306
QY 1201 CTGCAAGAACTGCAAGATCAAGCCAAATGTAATCTGCAAGAGTGTCCATCATTTG 1260
DB 4307 CTGCAAGAACTGCAAGATCAAGCCAAATGTAATCTGCAAGAGTGTCCATCATTTG 4366
QY 1261 GATTCAGGTAAGAGTCTAAGCACTTTAATTAATGAATCTGCCAAAGCTCTTTTCTT 1320
DB 4367 GATTCAGGTAAGAGTCTAAGCACTTTAATTAATGAATCTGCCAAAGCTCTTTTCTT 4426
QY 1321 CTGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1380
DB 4427 CTGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 4486
QY 1381 CTACATCAAGAGAGTGTGAGACTTTGCCAAGTACTAATAAAACAAATTTGCAACCA 1440
DB 4487 CTACATCAAGAGAGTGTGAGACTTTGCCAAGTACTAATAAAACAAATTTGCAACCA 4546

QY 1441 AAAGTATTTTGCAGAGATCCCGAATGGGCTACTGCGAGTGCAGACTGTCTTAGAGG 1500
DB 4547 AAAGTATTTTGCAGAGATCCCGAATGGGCTACTGCGAGTGCAGACTGTCTTAGAGG 4606
QY 1501 G 1501
DB 4607 G 4607

RESULT 12
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1501; DB 10; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTCTACGAAGACGAGTGAAGGCTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCG 60
DB 3225 TTCTACGAAGACGAGTGAAGGCTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCG 3284
QY 61 CTGACTGGCAGAGAAAAATATGATGAGACCTTGAAGAAGCTCAGGAATTTCAAGAGGCA 120
DB 3285 CTGACTGGCAGAGAAAAATATGATGAGACCTTGAAGAAGCTCAGGAATTTCAAGAGGCA 3344
QY 121 CGGATGAGCTGGAAGCTCAAGCTGCGCCAAAGCTGAGTATCAAGGATCTCGGACGCCG 180
DB 3345 CGGATGAGCTGGAAGCTCAAGCTGCGCCAAAGCTGAGTATCAAGGATCTCGGACGCCG 3404
QY 181 TGGGAGATCTCTCATTTACTCTCTCCAAATCACTTCGAGAAAGTCAAGGCACTTCCAG 240
DB 3405 TGGGAGATCTCTCATTTACTCTCTCCAAATCACTTCGAGAAAGTCAAGGCACTTCCAG 3464
QY 241 GAGAAATTTGCGCTCTGAAAGAAAGTGAAGCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 300
DB 3465 GAGAAATTTGCGCTCTGAAAGAAAGTGAAGCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 3524
QY 301 CCACTTTGGGCAATTCAGCTCTCACCGTAACTTCAGCACTCTGGAAGACCTGAACACCA 360
DB 3525 CCACTTTGGGCAATTCAGCTCTCACCGTAACTTCAGCACTCTGGAAGACCTGAACACCA 3584
QY 361 GATGAGAACTTCTGAGGTGCGGCTGAGAGCCGAGTCAAGGAGCTGATGAAGCCACA 420
DB 3585 GATGAGAACTTCTGAGGTGCGGCTGAGAGCCGAGTCAAGGAGCTGATGAAGCCACA 3644
QY 421 GGAATTGCTGAGTCAAGTCTGAGCACTTTCTTCCAGCTGTGTCCAGGGTCCCTGGAGA 480
DB 3645 GGAATTGCTGAGTCAAGTCTGAGCACTTTCTTCCAGCTGTGTGTCCAGGGTCCCTGGAGA 3704
QY 481 GAGCCATCTGCGCCAAACAAAGTCCCTTCTATATCAACCAAGAGACTAAACAACTTCT 540
DB 3705 GAGCCATCTGCGCCAAACAAAGTCCCTTCTATATCAACCAAGAGACTAAACAACTTCT 3764
QY 541 GGGACCATCCCAAAATGACAGAGCTTACAGCTCTTGTAGTCACTGTAATATGACAT 600
DB 3765 GGGACCATCCCAAAATGACAGAGCTTACAGCTCTTGTAGTCACTGTAATATGACAT 3824

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QY 601 TCTCACTTATAGAGCTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGGATC 660
DB 3825 TCTCACTTATAGAGCTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGGATC 3884
QY 661 TCTTGAAGCCCTGACGTGATGATGCTTGGACAGCAACAACCTCAAGCAAAATGACC 720
DB 3885 TCTTGAAGCCCTGACGTGATGATGCTTGGACAGCAACAACCTCAAGCAAAATGACC 3944
QY 721 AGCCCATGATATCTGCAAGATTAATTTGTTGACCACTATTATGACCGCTGGAGC 780
DB 3945 AGCCCATGATATCTGCAAGATTAATTTGTTGACCACTATTATGACCGCTGGAGC 4004
QY 781 AAGAGCAACAATTTGTGCAAGCTCCTCTGCTGATATGATGCTGAACTGGCTGC 840
DB 4005 AAGAGCAACAATTTGTGCAAGCTCCTCTGCTGATATGATGCTGAACTGGCTGC 4064
QY 841 TGAATGTTATATGATGAGGAGCAAGAGGAGATCCGTGCTCTGCTTAAACTGGCA 900
DB 4065 TGAATGTTATATGATGAGGAGCAAGAGGAGATCCGTGCTCTGCTTAAACTGGCA 4124
QY 901 TCAATTTCCCTGTGTAAAGCATTGGAAGACAGATACCTTTTCAAGCAAGTGC 960
DB 4125 TCAATTTCCCTGTGTAAAGCATTGGAAGACAGATACCTTTTCAAGCAAGTGC 4184
QY 961 CAAGTTCAACAGATTTTGTGACCGGAGGCTGGGCTCCTTGTGATGATCTATCC 1020
DB 4185 CAAGTTCAACAGATTTTGTGACCGGAGGCTGGGCTCCTTGTGATGATCTATCC 4244
QY 1021 AAATTCACAAGCAGTTGGGTGAAGTTGACCTCTTGGGGGAGATTAACATGAGCCAACTG 1080
DB 4245 AAATTCACAAGCAGTTGGGTGAAGTTGACCTCTTGGGGGAGATTAACATGAGCCAACTG 4304
QY 1081 TCCGAGCTGCTTCCAAATTTGTGTAATAAAGCCAGATGCAAGCGGCTCTTCTAG 1140
DB 4305 TCCGAGCTGCTTCCAAATTTGTGTAATAAAGCCAGATGCAAGCGGCTCTTCTAG 4364
QY 1141 ACTGATGAGACTGGAACCCAGTCATGATGCTGCTCCCTCTGCAAGAGTGGCTG 1200
DB 4365 ACTGATGAGACTGGAACCCAGTCATGATGCTGCTCCCTCTGCAAGAGTGGCTG 4424
QY 1201 CTGCAAGAACTGCAAGCATGAGCCCAATGTAACATCTGCAAGAAAGTGCATCAATG 1260
DB 4425 CTGCAAGAACTGCAAGCATGAGCCCAATGTAACATCTGCAAGAAAGTGCATCAATG 4484
QY 1261 GATTCAAGTAAAGAGCTTAAGACCTTTAATATGACATCTGCCAAAGCTGCTTTT 1320
DB 4485 GATTCAAGTAAAGAGCTTAAGACCTTTAATATGACATCTGCCAAAGCTGCTTTT 4544
QY 1321 CTGATCGAGTTGCAAAAGGCGCATTAATATGACTATCCATGCTGGAATATGCACTCGA 1380
DB 4545 CTGATCGAGTTGCAAAAGGCGCATTAATATGACTATCCATGCTGGAATATGCACTCGA 4604
QY 1381 CTACATCGAGGAAGATGTTGAGACTTTGCAAGGTACTAAAAAACAATTTGCAACCA 1440
DB 4605 CTACATCGAGGAAGATGTTGAGACTTTGCAAGGTACTAAAAAACAATTTGCAACCA 4664
QY 1441 AAAGGTAATTTGCAAGAGATCCCGAATGGGCTACTGCGAGTGCACATGCTTGAAGG 1500
DB 4665 AAAGGTAATTTGCAAGAGATCCCGAATGGGCTACTGCGAGTGCACATGCTTGAAGG 4724
QY 1501 G 1501
DB 4725 G 4725
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RESULT 13
US-09-845-416-34

; Sequence 34, Application US/09845416

; Publication No. US2003017132A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

```
; TITLE OF INVENTION: THEROP
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1501; DB 10; Length 4990;
Beet Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTCTACGAAACAGAGCTGAGAGGTCAATACTAGTGGGAAATTTGAACTCGACCTCG 60
DB 3249 TTCTACGAAACAGAGCTGAGAGGTCAATACTAGTGGGAAATTTGAACTCGACCTCG 3308
QY 61 CTGACTGGCAGAGAAAATATGATGAGACCTTGAAGACTTCAGAGCACTTCAAGGCCA 120
DB 3309 CTGACTGGCAGAGAAAATATGATGAGACCTTGAAGACTTCAGAGCACTTCAAGGCCA 3368
QY 121 CGGATGAGCTGGAACCTCAAGCTGGCCAGCTGAGTATCAAGGATCTCTGGCAGCCG 180
DB 3369 CGGATGAGCTGGAACCTCAAGCTGGCCAGCTGAGTATCAAGGATCTCTGGCAGCCG 3428
QY 181 TGGGCGATCTCTCTATTTGACTCTCTCCAGATCACTCGAAGAAAGTCAAGCACTTGCAG 240
DB 3429 TGGGCGATCTCTCTATTTGACTCTCTCCAGATCACTCGAAGAAAGTCAAGCACTTGCAG 3488
QY 241 GAGAAATTTGGGCTCTGAAAGAGAGAGTGAAGCCAGCTCAATGACTTGTCTGCCAGCTTA 300
DB 3489 GAGAAATTTGGGCTCTGAAAGAGAGAGTGAAGCCAGCTCAATGACTTGTCTGCCAGCTTA 3548
QY 301 CCACTTGGGCAATTCAGCTCTCAACCGTATTAACCTCAAGCACTCTGGAAGCTTGAACCA 360
DB 3549 CCACTTGGGCAATTCAGCTCTCAACCGTATTAACCTCAAGCACTCTGGAAGCTTGAACCA 3608
QY 361 GATGGAAGCTTCTGCAAGTGGCGGTGAGAGCCGAGTCAAGGCACTGATGAAGCCACA 420
DB 3609 GATGGAAGCTTCTGCAAGTGGCGGTGAGAGCCGAGTCAAGGCACTGATGAAGCCACA 4268
QY 421 GGGACTTTGGTCCAGAGATCTCAAGCACTTTCTTCCAGCTGTGCGAGGCTCTGGGAGA 480
DB 4269 GGGACTTTGGTCCAGAGATCTCAAGCACTTTCTTCCAGCTGTGCGAGGCTCTGGGAGA 4928
QY 481 GAGCATTGCTGCAAGATCTCAAGCACTTTCTTCCAGCTGTGCGAGGCTCTGGGAGA 540
DB 4861 GAGCATTGCTGCAAGATCTCAAGCACTTTCTTCCAGCTGTGCGAGGCTCTGGGAGA 5520
QY 541 GGGACATCTCCCAAAATGAGAGAGCTTACAGCTTTTACCTGAAGTAATGTCAGAT 600
DB 5461 GGGACATCTCCCAAAATGAGAGAGCTTACAGCTTTTACCTGAAGTAATGTCAGAT 608
QY 601 TCTCACTTATAGAGCTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGGATC 660
DB 6061 TCTCACTTATAGAGCTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGGATC 668
QY 661 TCTCACTTATAGAGCTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGGATC 720
DB 6661 TCTCACTTATAGAGCTGCCATGAAACTCCGAAAGCTGCAAGAGCCCTTGTGGATC 728
QY 721 AGCCCATGATATCTGCAAGATTAATTTGTTGACCACTATTATGACCGCTGGAGC 780
DB 7261 AGCCCATGATATCTGCAAGATTAATTTGTTGACCACTATTATGACCGCTGGAGC 788
QY 781 AAGAGCAACAATTTGTGCAAGCTCCTCTGCTGATATGATGCTGAACTGGCTGC 840
DB 7861 AAGAGCAACAATTTGTGCAAGCTCCTCTGCTGATATGATGCTGAACTGGCTGC 848
QY 840 4029 AAGAGCAACAATTTGTGCAAGCTCCTCTGCTGATATGATGCTGAACTGGCTGC 4088
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QY 841 TGAATGTTTATGATACGGGACGAAACAGGAGATCCGTGCTCTTTTAAACCTGCA 900
DB 4089 TGAATGTTTATGATACGGGACGAAACAGGAGATCCGTGCTCTTTTAAACCTGCA 4148
QY 901 TCATTTCCCTGTGTAAGCACATTTGGAAGCAAGATACAGATCTTTTCAAGCAAGTGG 960
DB 4149 TCATTTCCCTGTGTAAGCACATTTGGAAGCAAGATACAGATCTTTTCAAGCAAGTGG 4208
QY 961 CAAGTTCAACAGATTTTGTGACACAGCGAGCTGGGCTCTTTGTCATGATTTCTATCC 1020
DB 4209 CAAGTTCAACAGATTTTGTGACACAGCGAGCTGGGCTCTTTGTCATGATTTCTATCC 4268
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US-09-845-416-36
Sequence 36, Application US/09845416
Publication No. US20030171312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
FILE REFERENCE: THEORF
CURRENT APPLICATION NUMBER: US/09/845,416
CURRENT FILING DATE: 2001-04-30
PRIORITY APPLICATION NUMBER: 60/200,777
PRIORITY FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 36
LENGTH: 5060
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OM nucleic - nucleic search, using sw model

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Title: US-09-845-416-10_COPY_2000_3500

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Minimum DB seq length: 0
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	1501	100.0	5952	4 US-09-687-875A-1	Sequence 1, Appl1
2	1499.4	99.9	5627	4 US-09-949-016-2831	Sequence 2831, Ap
3	1499.4	99.9	5627	4 US-09-949-016-2832	Sequence 2832, Ap
4	1499.4	99.9	7070	4 US-09-949-016-2804	Sequence 2804, Ap
5	1499.4	99.9	7070	4 US-09-949-016-2805	Sequence 2805, Ap
6	1499.4	99.9	7070	4 US-09-949-016-2806	Sequence 2806, Ap
7	1499.4	99.9	7070	4 US-09-949-016-2807	Sequence 2807, Ap
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10	1499.4	99.9	7070	4 US-09-949-016-2810	Sequence 2810, Ap
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25	1490	99.3	13977	3 US-09-484-970B-60	Sequence 60, Appl
26	1307.4	87.1	19307	3 US-08-836-022A-10	Sequence 10, Appl
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37	696.2	46.3	3499	4 US-09-949-016-1359	Sequence 1359, Ap
38	684.4	45.6	3915	4 US-09-976-594-93	Sequence 93, Appl
39	230.8	15.4	393753	4 US-09-949-016-14573	Sequence 14573, A
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ALIGNMENTS

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; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687, 875A
; PRIOR APPLICATION NUMBER: 60/158, 868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: 54 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: 52 junction site
US-09-687-875A-1
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Sequence 2831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
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; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2831

Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 1321 CTGCTGAGTTCAGAAAGGCCATTAATATGACTATCCATGGTGGATATTTGCACTCCGA 1380
Db 1902 CTGCTGAGTTCAGAAAGGCCATTAATATGACTATCCATGGTGGATATTTGCACTCCGA 1961
Qy 1381 CTATCATCGAGAAAGATGTTGAGACTTTGGCCAMGTAATAAAAAAACTTTGCAACCA 1440
Db 1962 CTATCATCGAGAAAGATGTTGAGACTTTGGCCAMGTAATAAAAAAACTTTGCAACCA 2021
Qy 1441 AAAGGTATTTTGGCAAGATCCCGAATGGGCTACCTGCAAGTGCAGACTGTCTTAGAG 1500
Db 2022 AAAGGTATTTTGGCAAGATCCCGAATGGGCTACCTGCAAGTGCAGACTGTCTTAGAG 2081
Qy 1501 G 1501
Db 2082 G 2082

RESULT 3
US-09-949-016-2832
; Sequence 2832, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832
Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TTCTACGAAAGCAGAGCTGAGAGGTCATATCTAGTGGGAAAAATGAACTGCACTCG 60
Db 582 TTCTACGAAAGCAGAGCTGAGAGGTCATATCTAGTGGGAAAAATGAACTGCACTCG 641
Qy 61 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAGAATCTCAGAGAACTTCAAGAGCCA 120
Db 642 CTGACTGGCAGAGAAAAATAGATGAGACCTTGAAGAATCTCAGAGAACTTCAAGAGCCA 701
Qy 121 CGATGAGCTGAGACTCAAGCTGCGCCCAAGCTGAGTATTAAGAGATCTTCGACGCCG 180
Db 702 CGATGAGCTGAGACTCAAGCTGCGCCCAAGCTGAGTATTAAGAGATCTTCGACGCCG 761
Qy 181 TGGGAGATCTCTCATTTGACTCTCCCAAGATCACTGAGAGAAATCAAGGCACTTGCAG 240
Db 762 TGGGAGATCTCTCATTTGACTCTCCCAAGATCACTGAGAGAAATCAAGGCACTTGCAG 821
Qy 241 GAGAAATTTGCGCTCTGAAAGAGACGTGACCAAGTCAATGACTTGTGCGCAGCTTA 300
Db 822 GAGAAATTTGCGCTCTGAAAGAGACGTGACCAAGTCAATGACTTGTGCGCAGCTTA 881
Qy 301 CCACTTTGGGATTCAGCTCTCACCGTAAACCTTCAGACATCTTGGAGAACTGAAACCA 360
Db 882 CCACTTTGGGATTCAGCTCTCACCGTAAACCTTCAGACATCTTGGAGAACTGAAACCA 941
Qy 361 GATGAAGCTTCTCAGAGTGGCGGTGAGAGACGAGTACGAGCAGCTGATGAAGCCACA 420
Db 942 GATGAAGCTTCTCAGAGTGGCGGTGAGAGACGAGTACGAGCAGCTGATGAAGCCACA 1001
Qy 421 GGGACTTTGTGTCAGACATCTGAGACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGAGA 480
Db 1002 GGGACTTTGTGTCAGACATCTGAGACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGAGA 1061
Qy 481 GAGGCATCTGCCCAAAAGTGGCTTACTTATCAACCAAGAGACTAAACACTTGGT 540
Db 1062 GAGGCATCTGCCCAAAAGTGGCTTACTTATCAACCAAGAGACTAAACACTTGGT 1121
Qy 541 GGGACATCTCCCAAAATGACAGAGCTTACAGTCTTTAGCTGACCTGAATATGTCAGAT 600
Db 1122 GGGACATCTCCCAAAATGACAGAGCTTACAGTCTTTAGCTGACCTGAATATGTCAGAT 1181
Qy 601 TCTGAGCTTATAGAGACTGTCAGTAAACTCCGAGAATGTCAGAGGCCCCCTTGTGGATC 660

Db	1182	TCGAGCTTATAGACCTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTGTGGTGAATC	1241
Qy	661	TCCTGAGCCTGTACAGCTGCATGTGATGCTTGGACCAAGCAACACTCAAGCAAAATGACC	720
Db	1242	TCCTTGAAGCCTGTACAGCTGCATGTGATGCTTGGACCAAGCAACACTCAAGCAAAATGACC	1301
Qy	721	AGCCCATGGAATATCCGTGACAGATTATTAATGTGTGACCACTAATTTATGACCCGCTGGAGC	780
Db	1302	AGCCCATGGAATATCCGTGACAGATTATTAATGTGTGACCACTAATTTATGACCCGCTGGAGC	1361
Qy	781	AAGGCAACAACAAATTTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACTGGCTGC	840
Db	1362	AAGGCAACAACAAATTTGGTCAACGTCCTCTCTGCGTGGATATGTGTGAACTGGCTGC	1421
Qy	841	TGAATGTTTATGATACGGGAGCAACAAGGAGATCCGTGTCTGTCTTTTAAACTGGCA	900
Db	1422	TGAATGTTTATGATACGGGAGCAACAAGGAGATCCGTGTCTGTCTTTTAAACTGGCA	1481
Qy	901	TCATTTCCCTGTGTAAAGCACATTTGGAAGACAATACAGATACCTTTCAAGCAAGTG	960
Db	1482	TCATTTCCCTGTGTAAAGCACATTTGGAAGACAATACAGATACCTTTCAAGCAAGTG	1541
Qy	961	CAATTCACAACGATTTTGTGACCAAGCCAGGCTGGGCTCTCTTGCAATGATATCC	1020
Db	1542	CAATTCACAACGATTTTGTGACCAAGCCAGGCTGGGCTCTCTTGCAATGATATCC	1601
Qy	1021	AAATTCACAAGACATTTGGGTGAAGTGTGATCCTTTGGGGGACATACATGAGCCCAATG	1080
Db	1602	AAATTCACAAGACATTTGGGTGAAGTGTGATCCTTTGGGGGACATACATGAGCCCAATG	1661
Qy	1081	TCGGAGACTGCTTCCATTTGCTAATAATTAAGCCAGAGATCGAAGCGGCTCTTCTTAG	1140
Db	1662	TCGGAGACTGCTTCCATTTGCTAATAATTAAGCCAGAGATCGAAGCGGCTCTTCTTAG	1721
Qy	1141	ACTGATGAGACTGGAACCCAGTCCAAATGATGTGGCTGCCGCTGTGACAGAGTGCTG	1200
Db	1722	ACTGATGAGACTGGAACCCAGTCCAAATGATGTGGCTGCCGCTGTGACAGAGTGCTG	1781
Qy	1201	CTGCAACAACTGCCAGACATCAGGCCCAATGTAAATCTGTGCAAGAGTGTCCAATCATTG	1260
Db	1782	CTGCAACAACTGCCAGACATCAGGCCCAATGTAAATCTGTGCAAGAGTGTCCAATCATTG	1841
Qy	1261	GATTCAGGTACAGAGCTAAAGACCTTAAATTAATGACATCTGCCAAAGCTGCTTTTTT	1320
Db	1842	GATTCAGGTACAGAGCTTAAAGACCTTAAATTAATGACATCTGCCAAAGCTGCTTTTTT	1901
Qy	1321	CTGTGTGAGTTGCAAAAGGCCATTAATAATGCACTATCCCATGTGTGAATATTGCCATCGA	1380
Db	1902	CTGTGTGAGTTGCAAAAGGCCATTAATAATGCACTATCCCATGTGTGAATATTGCCATCGA	1961
Qy	1381	CTACATCAGAGAAAGTTCGAGACTTGTGCCAAAGTATCTTAATAAACAAATTTGAAACA	1440
Db	1962	CTACATCAGAGAAAGTTCGAGACTTGTGCCAAAGTATCTTAATAAACAAATTTGAAACA	2021
Qy	1441	AAAGTATTTTGGGAAGATCCCGAATGGGCTACCTGCAGTGCAGACATGTCTTAAAGG	1500
Db	2022	AAAGTATTTTGGGAAGATCCCGAATGGGCTACCTGCAGTGCAGACATGTCTTAAAGG	2081
Qy	1501	G 1501	
Db	2082	G 2082	
RESULT 4			
US-09-949-016-2804			
; Sequence 2804, Application US/09949016			
; Patent No. 6812339			
; GENERAL INFORMATION:			
; APPLICANT: VENTER, J. Craig et al.			
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED			
; FILE REFERENCE: CLO01107			
; CURRENT APPLICATION NUMBER: US/09/949, 016			

Query Match	Best Local Similarity	Score	DB	Length	7070;
Matches 1500;	Conservative	0;	Mismatches	1;	Indels 0;
Gaps	0;				
1	TTCTACGAAAGAGAGCTGAGAGGTCATATCACTAGTGGGAAAAATTGAACCTTGCACTTCG	60			
2096	TTCTACGAAAGAGAGCTGAGAGGTCATATCACTAGTGGGAAAAATTGAACCTTGCACTTCG	2155			
61	CTGACTGGCAGAGAAAAATGATGAGACCTTGAAAGATCCGAGAACTTCAAGAGGCCA	120			
2156	CTGACTGGCAGAGAAAAATGATGAGACCTTGAAAGATCCGAGAACTTCAAGAGGCCA	2218			
121	GGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTATCAAGGATCTCGCAGCCCG	180			
2216	GGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTATCAAGGATCTCGCAGCCCG	2275			
181	TGGGCGATCTCCTCATTTGACTCTCTCCAAATCACTTGAAAGTCAAGGACCTTGAG	240			
2276	TGGGCGATCTCCTCATTTGACTCTCTCCAAATCACTTGAAAGTCAAGGACCTTGAG	2335			
241	GAGAAATTGGCCCTCTTGAAAGAAAGCTGAGCCACGTCAATGACTTGTCTGCGACCTTA	300			
2336	GAGAAATTGGCCCTCTTGAAAGAAAGCTGAGCCACGTCAATGACTTGTCTGCGACCTTA	2395			
301	CCACTTTGGGCACTTCAAGCTCTCAACCGATACCTCAGACCTCTGAGAGACCTGAAACCA	360			
2396	CCACTTTGGGCACTTCAAGCTCTCAACCGATACCTCAGACCTCTGAGAGACCTGAAACCA	2455			
361	GATGGAAGCTTCTGACAGTGGCCGTGAGGACCGAGTCAAGCAGCTCAGTAAGGCCACA	420			
2456	GATGGAAGCTTCTGACAGTGGCCGTGAGGACCGAGTCAAGCAGCTCAGTAAGGCCACA	2515			
421	GGGACTTTGGTCCAGCATCTCAGACATTTCTTTCCAGTCTGTCCAGGGTCCCTGGGAGA	480			
2516	GGGACTTTGGTCCAGCATCTCAGACATTTCTTTCCAGTCTGTCCAGGGTCCCTGGGAGA	2575			
481	GAGCCATCTGCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAACAAACCTTGT	540			
2576	GAGCCATCTGCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAACAAACCTTGT	2635			
541	GGGACCATCCCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAAATATGTCCAGAT	600			
2636	GGGACCATCCCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAAATATGTCCAGAT	2695			
601	TCTCAGCTTAAAGGACCTGACATGAAACTCCGAGACCTGACGAGAGGCCCTTGTCTTGATC	660			
2696	TCTCAGCTTAAAGGACCTGACATGAAACTCCGAGACCTGACGAGAGGCCCTTGTCTTGATC	2755			
661	TCTTGAAGCTGTGAGCTGATGATGCTTGGACCAAGACCAACCTCAAGCAAAATGAGCC	720			
2756	TCTTGAAGCTGTGAGCTGATGATGCTTGGACCAAGACCAACCTCAAGCAAAATGAGCC	2815			
721	AGCCCATGATATTCCTGACGATTTAATTTGTTGACCACTAATTATGACCCGCTGAGCC	780			
2816	AGCCCATGATATTCCTGACGATTTAATTTGTTGACCACTAATTATGACCCGCTGAGCC	2875			
781	AAAGACCAACAAATTTGTCAAGTCCCTCTGCGGTGATATGTCTGAACCTGGCTCCG	840			

Db 2876 AAGACACAACAAATTTGGTCAACGTCCTCTCTGCTGATATGTGTCTGAACCTGGCTGC 2935
Qy 841 TGAATGTTTTATGATACCGGACGAAACAGGAGGATCCCGTCCCTCTTTTAAACCTGGCA 900
Db 2936 TGAATGTTTTATGATACCGGACGAAACAGGAGGATCCCGTCCCTCTTTTAAACCTGGCA 2995
Qy 901 TCAATTTCCCTGTGTAAAGACATTTGGAAAGACAGATACAGATACCTTTTCAAGCAAGTGG 960
Db 2996 TCAATTTCCCTGTGTAAAGACATTTGGAAAGACAGATACAGATACCTTTTCAAGCAAGTGG 3055
Qy 961 CAAGTTCACACAGATTTTGTGACCGACGAGCTGGGCTCTCTTCTGATGATTTCTATCC 1020
Db 3056 CAAGTTCACACAGATTTTGTGACCGACGAGCTGGGCTCTCTTCTGATGATTTCTATCC 3115
Qy 1021 AAATTTCCAAACAGATTTGGGTGAAGTTGATTCCTTTGGGGGAGATTAATTAAGCAAGTGG 1080
Db 3116 AAATTTCCAAACAGATTTGGGTGAAGTTGATTCCTTTGGGGGAGATTAATTAAGCAAGTGG 3175
Qy 1081 TCCGAGCTGCTCTCAATTTGCTAATTAATTAAGCAGAGATGCAAGCGGCTCTTCTCTAG 1140
Db 3176 TCCGAGCTGCTCTCAATTTGCTAATTAATTAAGCAGAGATGCAAGCGGCTCTTCTCTAG 3235
Qy 1141 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCGCTCTGACAGAGTGGCTG 1200
Db 3236 ACTGATGAGACTGGAACCCCAAGTCCATGCTGTGGCTGCCGCTCTGACAGAGTGGCTG 3295
Qy 1201 CTGAGAAACCTGCGCAAGCTATGAGCCCAATATTAATCTGCAAGAGTGTCTCAATTC 1260
Db 3296 CTGAGAAACCTGCGCAAGCTATGAGCCCAATATTAATCTGCAAGAGTGTCTCAATTC 3355
Qy 1261 GATTCAGATCAGAGATCTAAGACATTTAATTAATTAAGCATGTCGCAAGCTCTTTTCTT 1320
Db 3356 GATTCAGATCAGAGATCTAAGACATTTAATTAATTAAGCATGTCGCAAGCTCTTTTCTT 3415
Qy 1321 CTGATCAGATTTGCAAAAGGCCATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1380
Db 3416 CTGATCAGATTTGCAAAAGGCCATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3475
Qy 1381 CTACATCAGAGAAAGATGTTGAGACTTTTGGCAAGTACTTAATAAAACAAATTTTGAACCA 1440
Db 3476 CTACATCAGAGAAAGATGTTGAGACTTTTGGCAAGTACTTAATAAAACAAATTTTGAACCA 3535
Qy 1441 AAAGGTATTTTGGAGACATCCCGGAATGGGCTACTGCGCAGTGCAGACTGCTTTAAGAG 1500
Db 3536 AAAGGTATTTTGGAGACATCCCGGAATGGGCTACTGCGCAGTGCAGACTGCTTTAAGAG 3595
Qy 1501 G 1501
Db 3596 G 3596

RESULT 5
US-09-949-016-2805
; Sequence 2805, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2805
; LENGTH: 7070
; TYPE: DNA

ORGANISM: Human
US-09-949-016-2805
Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TTTACGAAAGACAGAGCTGAGAGAGTCAATATCTAGTGGGAAAAATTAACCTGCACTCCG 60
Db 2096 TTTACGAAAGACAGAGCTGAGAGAGTCAATATCTAGTGGGAAAAATTAACCTGCACTCCG 2155
Qy 61 CTGACTGCGAGAGAAAAATAGATGAGACCTTGAAGACTTCAGAGAACTTCAAGAGCCA 120
Db 2156 CTGACTGCGAGAGAAAAATAGATGAGACCTTGAAGAACTTCAGAGAACTTCAAGAGCCA 2215
Qy 121 CGGATGAGCTGAGACTCAAGCTGGCCCAAGCTGAGTGAATCAAGGGATCCCGGAGCCG 180
Db 2216 CGGATGAGCTGAGACTCAAGCTGGCCCAAGCTGAGTGAATCAAGGGATCCCGGAGCCG 2275
Qy 181 TGGGCGATCTCTCTCAATGACTCTCTCCAGATCACTCTGAGAAAGTCAAGGCACTTGCAG 240
Db 2276 TGGGCGATCTCTCTCAATGACTCTCTCCAGATCACTCTGAGAAAGTCAAGGCACTTGCAG 2335
Qy 241 GAGAAATTTGCGCTCTGAAAGAGACGTGAGCCAGTCAATGACTTGTCTGCGCACTTA 300
Db 2336 GAGAAATTTGCGCTCTGAAAGAGACGTGAGCCAGTCAATGACTTGTCTGCGCACTTA 2395
Qy 301 CCACTTTGGGCAATTCAGCTCTCAACCTGTAATCACTCTGAGCACTTGTCTGCGCACTTA 360
Db 2396 CCACTTTGGGCAATTCAGCTCTCAACCTGTAATCACTCTGAGCACTTGTCTGCGCACTTA 2455
Qy 361 GATGAAGACTTCTGAGAGTGGCGCTGAGAGACGAGTCAAGCACTGATGAAGCCCA 420
Db 2456 GATGAAGACTTCTGAGAGTGGCGCTGAGAGACGAGTCAAGCACTGATGAAGCCCA 2515
Qy 421 GGGACTTTGGTCCAGCATCTCAAGCATTTTCTTTCACGCTGTGTCAGAGTCCCTGGAGAG 480
Db 2516 GGGACTTTGGTCCAGCATCTCAAGCATTTTCTTTCACGCTGTGTCAGAGTCCCTGGAGAG 2575
Qy 481 GAGCATCTGCGCCAAACAAAGTCCCTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 540
Db 2576 GAGCATCTGCGCCAAACAAAGTCCCTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2635
Qy 541 GGGACATCCCAAAATAGACAGAGCTTACAGAGTCTTATAGCTGACCTGAATAATGTACAT 600
Db 2636 GGGACATCCCAAAATAGACAGAGCTTACAGAGTCTTATAGCTGACCTGAATAATGTACAT 2695
Qy 601 TCTCAGCTTAATAGACTGCGAATCTCCGAAAGCTGCAAGAGCCCTTGTGATC 660
Db 2696 TCTCAGCTTAATAGACTGCGAATCTCCGAAAGCTGCAAGAGCCCTTGTGATC 2755
Qy 661 TCTTGAAGCTGTGACGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Db 2756 TCTTGAAGCTGTGACGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2815
Qy 721 AGCCATGATATCTGAGATTAATTAATGTTTGAACCACTTATTAAGCCGCTGAGC 780
Db 2816 AGCCATGATATCTGAGATTAATTAATGTTTGAACCACTTATTAAGCCGCTGAGC 2875
Qy 781 AAGACACAACAAATTTGGTCAACGCTCTCTGCTGATATGATGATGATGATGATGATGATGAT 840
Db 2876 AAGACACAACAAATTTGGTCAACGCTCTCTGCTGATATGATGATGATGATGATGATGATGAT 2935
Qy 841 TGAATGTTTTATGATACCGGACGAAACAGGAGATCCGCTGTCTGCTTTTAAACTGGCA 900
Db 2936 TGAATGTTTTATGATACCGGACGAAACAGGAGATCCGCTGTCTGCTTTTAAACTGGCA 2995
Qy 901 TCAATTTCCCTGTGTAAAGACATTTGGAAAGACAGATACAGATACCTTTTCAAGCAAGTGG 960
Db 2996 TCAATTTCCCTGTGTAAAGACATTTGGAAAGACAGATACAGATACCTTTTCAAGCAAGTGG 3055
Qy 961 CAAGTTCACACAGATTTTGTGACCGACGAGCTGGGCTCTCTTCTGATGATTTCTATCC 1020

Db 3056 CAAGTTCAAGAGATTTTGTGACCAAGCAGGCTGGGCTCTTTCATGATTCATCC 3115
QY 1021 AAATTCAGAGAGTTGGGTGAGTTGCATCTTTGGGGGCAATTAATTTGAGCCAAAGTG 1080
Db 3116 AAATTCAGAGAGTTGGGTGAGTTGCATCTTTGGGGGCAATTAATTTGAGCCAAAGTG 3175
QY 1081 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCAGAGATGGAAGCGGCTCTTCTAG 1140
Db 3176 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCAGAGATGGAAGCGGCTCTTCTAG 3235
QY 1141 ACTGATGAGATCGGAAACCCCAATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
Db 3236 ACTGATGAGATCGGAAACCCCAATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3255
QY 1201 CTGCGAAACTGCGCAAGCATCGGCAATGATTAATCATGTGCAAGAGAGTCCATCATTTG 1260
Db 3296 CTGCGAAACTGCGCAAGCATCGGCAATGATTAATCATGTGCAAGAGAGTCCATCATTTG 3355
QY 1261 GATTGAGGTACAGAGTCTTAAGCACTTTAATTAATTAATTAATTAATTAATTAATTAATTA 1320
Db 3356 GATTGAGGTACAGAGTCTTAAGCACTTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3415
QY 1321 CTGCTCGAGTTGCAAAAGGCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1380
Db 3416 CTGCTCGAGTTGCAAAAGGCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 3475
QY 1381 CTACATCAGAGAGAGATGTTGCAAGCTTTGCAAGGTAATTAATTAATTAATTAATTAATTAAT 1440
Db 3476 CTACATCAGAGAGAGATGTTGCAAGCTTTGCAAGGTAATTAATTAATTAATTAATTAATTAAT 3535
QY 1441 AAAGGTATTTTGGCAAGCATCCCGAATGAGGCTTACCTGCGAGGCAAGCACTGCTTGAAG 1500
Db 3536 AAAGGTATTTTGGCAAGCATCCCGAATGAGGCTTACCTGCGAGGCAAGCACTGCTTGAAG 1500
QY 1501 G 1501
Db 3596 G 3596

RESULT 6

US-09-949-016-2806
/ Sequence 2806, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: SeqBQ for Windows Version 4.0
/ SEQ ID NO 2806
/ LENGTH: 7070
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-2806

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTAGGAAGAGGCTGAGAGAGTCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 60
Db 2096 TTCTAGGAAGAGGCTGAGAGAGTCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2155
QY 61 CTGACTGCGAGAGAAAATATGATGAGACCTTTGAAAGACTCCAGGAACCTTCAAGAGGCA 120

Db 2156 CTGACTGCGAGAGAAAATATGATGAGACCTTTGAAAGACTCCAGGAACCTTCAAGAGGCA 2215
QY 121 CGGATAGCTGAGACCTCAAGCTGCGCAAGCTGAGAGTATCAAGGATCTTGGAGCCCG 180
Db 2216 CGGATAGCTGAGACCTCAAGCTGCGCAAGCTGAGAGTATCAAGGATCTTGGAGCCCG 2275
QY 181 TGGGCAATCTCTCATTTGATCTCTTCAAGATCACTCTGAGAAAGTCAAGGACCTTGAG 240
Db 2276 TGGGCAATCTCTCATTTGATCTCTTCAAGATCACTCTGAGAAAGTCAAGGACCTTGAG 2335
QY 241 GAGAAATTCGCGCTCTGAAAGGAAACGAGACGAGCTCAATGACCTTGTGCGAGCTTA 300
Db 2336 GAGAAATTCGCGCTCTGAAAGGAAACGAGACGAGCTCAATGACCTTGTGCGAGCTTA 2395
QY 301 CCACCTTTGGGCAATTCAGCTCTTACCTGATTAACCTCAAGACCTGGAAGACCTGAACCA 360
Db 2396 CCACCTTTGGGCAATTCAGCTCTTACCTGATTAACCTCAAGACCTGGAAGACCTGAACCA 2455
QY 361 GATGGAAGCTTCTGAGAGTGGCGGTGAGAGACCGAGTCAAGGCTGCAATGAAGCCACA 420
Db 2456 GATGGAAGCTTCTGAGAGTGGCGGTGAGAGACCGAGTCAAGGCTGCAATGAAGCCACA 2515
QY 421 GGGACTTTGGTCCAGCATCTTCAAGCATTTCTTTCAGAGTCTGTCAGAGGCTCCTGGGAGA 480
Db 2516 GGGACTTTGGTCCAGCATCTTCAAGCATTTCTTTCAGAGTCTGTCAGAGGCTCCTGGGAGA 2575
QY 481 GAGCCATCTGCGCAAAAGAGTGCCTTACTATTAATTAATTAATTAATTAATTAATTAATTAAT 540
Db 2576 GAGCCATCTGCGCAAAAGAGTGCCTTACTATTAATTAATTAATTAATTAATTAATTAATTAAT 2635
QY 541 GGGACCATCCCAAAATGAAGAGAGCTTACAGCTTTTATGCTGAGCTGATTAATGACAT 600
Db 2636 GGGACCATCCCAAAATGAAGAGAGCTTACAGCTTTTATGCTGAGCTGATTAATGACAT 2695
QY 601 TCTCAGCTTATAGAGTGCATGAAATCCGAAAGCTGCAAGAGCCCTTGTGAGATC 660
Db 2696 TCTCAGCTTATAGAGTGCATGAAATCCGAAAGCTGCAAGAGCCCTTGTGAGATC 2755
QY 661 TCTTGAAGCTGCTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 720
Db 2756 TCTTGAAGCTGCTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2815
QY 721 AGCCCATGATATCTGAGATTAATTAATTTGACACATTAATTAATTAATTAATTAATTAATTA 780
Db 2816 AGCCCATGATATCTGAGATTAATTAATTTGACACATTAATTAATTAATTAATTAATTAATTA 2875
QY 781 AAGACCAACAATTTGGTCAAGCTCCCTCTGCTGATATGATGATGATGATGATGATGATGATG 840
Db 2876 AAGACCAACAATTTGGTCAAGCTCCCTCTGCTGATATGATGATGATGATGATGATGATGATG 2935
QY 841 TGAATGTTTATGATAGGAGAGCAAGAGAGATCCGTCTGCTGCTTTTAAATTCGCA 900
Db 2936 TGAATGTTTATGATAGGAGAGCAAGAGAGATCCGTCTGCTGCTTTTAAATTCGCA 2995
QY 901 TCAATTTCCCTGTGTAAGCAATTTGGAAGACAAGTACAGATCACTTTTCAAGCAAGTG 960
Db 2996 TCAATTTCCCTGTGTAAGCAATTTGGAAGACAAGTACAGATCACTTTTCAAGCAAGTG 3055
QY 961 CAAGTTCAAGAGATTTTGTGACCAAGGAGCTGGGCTCTTCTGCAATGATTCATCC 1020
Db 3056 CAAGTTCAAGAGATTTTGTGACCAAGGAGCTGGGCTCTTCTGCAATGATTCATCC 3115
QY 1021 AAATTCAGAGAGCTTTGGGTGAGTTGCATCTTTGGGGGCAATTAATTTGAGCCAAAGTG 1080
Db 3116 AAATTCAGAGAGCTTTGGGTGAGTTGCATCTTTGGGGGCAATTAATTTGAGCCAAAGTG 3175
QY 1081 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCAGAGATGGAAGCGGCTCTTCTAG 1140
Db 3176 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCAGAGATGGAAGCGGCTCTTCTAG 3235
QY 1141 ACTGATGAGATCGGAAACCCCAATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200

Db	3236	ACTGGATGAGACTGGAAACCCAGTCCATGGTGTGGCTGCCCCGTCTCGACAGATGGGCTG	3255
Qy	1201	CTGCAGAAACTGCCAAGCATCAGGCCCAATGTAAATCTGCAAAAGAGTGTCCAAATCATTG	1260
Db	3296	CTGCAGAAACTGCCAAGCATCAGGCCCAATGTAAATCTGCAAAAGAGTGTCCAAATCATTG	3355
Qy	1261	GATTCAGGTACAGAGTCTTAAGCACTTTAATGTACATCTGCAAAAGCTGCTTTT	1320
Db	3356	GATTCAGGTACAGAGTCTTAAGCACTTTAATGTACATCTGCAAAAGCTGCTTTT	3415
Qy	1321	CTGGTCGAGTTGCAAAAGGCCATAAATATGACCTATCCCATGGTGAATATATGCACTCCGA	1380
Db	3416	CTGGTCGAGTTGCAAAAGGCCATAAATATGACCTATCCCATGGTGAATATATGCACTCCGA	3475
Qy	1381	CTACATCAGAGGAAGATGTTGAGACTTTGCGCAAGGTACTAAAAAACAAATTTGGAACCA	1440
Db	3476	CTACATCAGAGGAAGATGTTGAGACTTTGCGCAAGGTACTAAAAAACAAATTTGGAACCA	3535
Qy	1441	AAAGGATTTTTCGGAAGCATCCCGGAATGGGCTACCTGCGCAGTGCAAGACTGTCTTAAGAG	1500
Db	3536	AAAGGATTTTTCGGAAGCATCCCGGAATGGGCTACCTGCGCAGTGCAAGACTGTCTTAAGAG	3595
Qy	1501	G 1501	
Db	3596	G 3596	

```

RESULT 7
US-09-949-016-2807
; Sequence 2807, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2807
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2807

```

Query Match	99.9%	Score 1499.4;	DB 4;	Length 7070;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1500; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy	1	TTCTACGAAACACAGCGCTGAGGAGCTCACTACTGAGTGTGGGAAAAATTGAAACCTGCACCTCG	60
Db	2096	TTCTACGAAACACAGCGCTGAGGAGCTCACTACTGAGTGTGGGAAAAATTGAAACCTGCACCTCG	2155
Qy	61	CTGACTGGCAGAGAAAAATAGATGAGACCTCTGAAAGACTCCAGGACCTTCAAGAGGCCA	120
Db	2156	CTGACTGGCAGAGAAAAATAGATGAGACCTCTGAAAGACTCCAGGACCTTCAAGAGGCCA	2215
Qy	121	CGGATGAGCTGGAACCTCAAGCTGGGCCAAGCTGAGGTGATCAAGGAACTCTGGCAGGCCG	180
Db	2216	CGGATGAGCTGGAACCTCAAGCTGGGCCAAGCTGAGGTGATCAAGGAACTCTGGCAGGCCG	2275
Qy	181	TGGGCGATCTCTCAATTGACTCTCTCCAAAGATCACTCGAGAAAATCAAGGCACTTTCGAG	240
Db	2276	TGGGCGATCTCTCAATTGACTCTCTCCAAAGATCACTCGAGAAAATCAAGGCACTTTCGAG	2335
Qy	241	GAGAAATTGGCCTCTGAAAGAGAACTGAGCCACGTCAATGACCTTGTCTGCCAGCTTA	300

Db	2336	GAGAAATTGGCCCTCTGAAAGAAACCTGAGCCACGTCAATTGACCTTGCTGGCAGCTTA	2395
Oy	301	CCACTTTGGGCAATTCAGCTCTCACCGTATAAAGCTCAGCACTTGGAAAGACCTGAAACCA	360
Db	2396	CCACTTTGGGCAATTCAGCTCTCACCGTATAAAGCTCAGCACTTGGAAAGACCTGAAACCA	2455
Oy	361	GATGGAAGCTTCTGACAGTGGCCGTGAGGACCGAGTCAGGCAAGCTGCAATGAAGCCACA	420
Db	2456	GATGGAAGCTTCTGACAGTGGCCGTGAGGACCGAGTCAGGCAAGCTGCAATGAAGCCACA	2515
Oy	421	GGGACTTTGGTCCAGCATCTCAGCATCTTCTTTCCAGTCTGTGTCAGGGTCCCTGGGAGA	480
Db	2516	GGGACTTTGGTCCAGCATCTCAGCATCTTCTTTCCAGTCTGTGTCAGGGTCCCTGGGAGA	2575
Oy	481	GAGCCATCTGGCCAAACAAAGTGCCCTACTATATCAACACAGACCTCAACAACTTGGT	540
Db	2576	GAGCCATCTGGCCAAACAAAGTGCCCTACTATATCAACACAGACCTCAACAACTTGGT	2635
Oy	541	GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAAATATGTCAAT	600
Db	2636	GGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAAATATGTCAAT	2695
Oy	601	TCTAGCTTTATAGGACCTGACATGAAATCCGAAAGCTGCAAGAGGCCCTTGTGCTGATC	660
Db	2696	TCTAGCTTTATAGGACCTGACATGAAATCCGAAAGCTGCAAGAGGCCCTTGTGCTGATC	2755
Oy	661	TCTTGAGCCTGTGACGTGACATGTGATCCCTTGGACCAAGCAAACTTCAAGCAAAATGACC	720
Db	2756	TCTTGAGCCTGTGACGTGACATGTGATCCCTTGGACCAAGCAAACTTCAAGCAAAATGACC	2815
Oy	721	AGCCCATGATATCTCTGACATTTATATTTGTTGACCACTATTTATGACCCGCTGAGAC	780
Db	2816	AGCCCATGATATCTCTGACATTTATATTTGTTGACCACTATTTATGACCCGCTGAGAC	2875
Oy	781	AAGAGCAACAATTTGTCGAAGTCCCTCTGCGCGGATGATGTGTCGTAACCTGCGTGC	840
Db	2876	AAGAGCAACAATTTGTCGAAGTCCCTCTCTGCGCGGATGATGTGTCGTAACCTGCGTGC	2935
Oy	841	TGAATGTTTATGATATCCGAGCAAGAACAGGAGATCCGTCTCTGTCTTTTAAAACTGGCA	900
Db	2936	TGAATGTTTATGATATCCGAGCAAGAACAGGAGATCCGTCTCTGTCTTTTAAAACTGGCA	2995
Oy	901	TCATTTCCCTGTGTAAGCAACATTTGGAAGCAAGTACAGATACCTTTTCAACGAAGTGG	960
Db	2996	TCATTTCCCTGTGTAAGCAACATTTGGAAGCAAGTACAGATACCTTTTCAACGAAGTGG	3055
Oy	961	CAACTTCAACAGATTTTGTGACCAAGGCAAGCGGGGCTCCCTTCTGCAATGATCTATACC	1020
Db	3056	CAACTTCAACAGATTTTGTGACCAAGGCAAGCGGGGCTCCCTTCTGCAATGATCTATACC	3115
Oy	1021	AAATTTCAAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCAAGTAACTTTGAGCCAAAGTG	1080
Db	3116	AAATTTCAAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCAAGTAACTTTGAGCCAAAGTG	3175
Oy	1081	TCCGAGCTGTCTTCAATTTGCTATATATAAGCCAGAGATCGAAGCGGCGCTCTTCTTAG	1140
Db	3176	TCCGAGCTGTCTTCAATTTGCTATATATAAGCCAGAGATCGAAGCGGCGCTCTTCTTAG	3235
Oy	1141	ACTGGATGAGACTGGAACCCCAATTCATGTGTGTGGCTGCCCGTCTGCAAGAGTGGCTG	1200
Db	3236	ACTGGATGAGACTGGAACCCCAATTCATGTGTGTGGCTGCCCGTCTGCAAGAGTGGCTG	3295
Oy	1201	CTGCAAGAACTGCAAGACATCAGGCAAAATGTAAACATCTGCAAAAGATGTCTCAATCATTTG	1260
Db	3296	CTGCAAGAACTGCAAGACATCAGGCAAAATGTAAACATCTGCAAAAGATGTCTCAATCATTTG	3355
Oy	1261	GATTCAGGTACAGGAGTCTAAAGCACTTTAATATATGACATCTGCAAAAGCTGCTTTT	1320
Db	3356	GATTCAGGTACAGGAGTCTAAAGCACTTTAATATATGACATCTGCAAAAGCTGCTTTT	3415
Oy	1321	CTGGTCAAGTTGCAAAAGCCATTAATGCAATATCCATGCTGGGAATATTTGCACTTCGA	1380

Db	3416	CTGGTCGAGTTGCCAAAGGCCATTAATAATGACTATCCCATGGTGGAAATATGCACTCCGA	3475
QY	1391	CTACATCAGAGAGAGATGTCGAGACTTGGCCAAAGTACTTAAAAACAATTTTGCACCA	1440
Db	3476	CTACATCAGAGAGAAATGTTGGAGACTTTGCCAAGTACTTAAAAACAATTTTGCACCA	3535
QY	1441	AAAGTATTTTTCGAGACATCCCGCAATGGGCTACTCCAGTCGAGACTGCTTTAGAGG	1500
Db	3536	AAAGTATTTTTCGAGACATCCCGCAATGGGCTACTCCAGTCGAGACTGCTTTAGAGG	3595
QY	1501	G	1501
Db	3596	G	3596

RESULT 8
TIS-09-94

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US-09-949-016-2808
/ Sequence 2808, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ WITH THE INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION
/ AND USES THEREOF
/ FILE REFERENCE: C0001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2808
/ LENGTH: 7070
/ TYPE: DNA
/ ORGANISM: Human
/ US-09-949-016-2808

```

Query Match	99.9%	Score 149,4	DB 4	Length 7070
Best Local Similarity	99.9%	Pred. No. 0		
Matches 1500; Conservative	0	Mismatches 1	Indels 0	Gaps 0

QY	1	TTTCAAGAAAGCAGCGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACTCGACTCCG	60
Db	2096	TTTCAAGAAAGCAGCGCTGAGAGGCTCAATACTGAGTGGGAAAAATTGAACTCGACTCCG	2155
QY	61	CTGACCTGGGAGAGAAAAATAGATGAGACCTTGAAGAATCCAGAACTTCAAGAGGCCA	120
Db	2156	CTGACCTGGGAGAGAAAAATAGATGAGACCTTGAAGAATCCGGAATCTTCAAGAGGCCA	2215
QY	121	CGSAGTAGCTGGAACCTCAAGCTGGCCCAAGCTGAGAGTATCAAGGATCTTGGCAGCCCG	180
Db	2216	CGSAGTAGCTGGAACCTCAAGCTGGCCCAAGCTGAGAGTATCAAGGATCTTGGCAGCCCG	2275
QY	181	TGGCGGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAGAAAGTCAAGGCATTTGAG	240
Db	2276	TGGCGGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAGAAAGTCAAGGCATTTGAG	2335
QY	241	GAGAAATTGCGCTCTTGAAGAAGAAAGTGAAGCCAGTCAATGACCTTGCTGGCAGACTTA	300
Db	2336	GAGAAATTGCGCTCTTGAAGAAGAAAGTGAAGCCAGTCAATGACCTTGCTGGCAGACTTA	2395
QY	301	COACTTTGGGAGTTACGCTCTCAACCGTATTAACCTTCAGACCTTGGAGAAGACTTGAACACCA	360
Db	2396	COACTTTGGGAGTTACGCTCTCAACCGTATTAACCTTCAGACCTTGGAGAAGACTTGAACACCA	2455
QY	361	GATGAAGACTTCTCAGAGGTGGCCGCTCAGAGCCGAGTCAAGCAGCTGCAATGAAGCCACCA	420
Db	2456	GATGAAGACTTCTCAGAGGTGGCCGCTCAGAGCCGAGTCAAGCAGCTGCAATGAAGCCACCA	2515
QY	421	GGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCAAGTGTGTCCAGAGGTCCTGGGAGA	480

[illegible]

Db 3596 G 3596

RESULT 9

US-09-949-016-2809
; Sequence 2809, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2809
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2809

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGGAGGCTGAGAGGTCATCTAGTGGGAAATTTGAACTGCACTCCG 60
DB 2096 TTCTACGAAAGGAGGCTGAGAGGTCATCTAGTGGGAAATTTGAACTGCACTCCG 2155
QY 61 CTGACTGCGAGAGAAATAGATGAGACCTTGAAGAATCCAGAGAACTTCAAGAGGCA 120
DB 2156 CTGACTGCGAGAGAAATAGATGAGACCTTGAAGAATCCAGAGAACTTCAAGAGGCA 2215
QY 121 CGAGTGAAGCTGAGCTCAAGCTGCGCAAGCTGAGTGAAGGATCTTGCAAGCCCG 180
DB 2216 CGAGTGAAGCTGAGCTCAAGCTGCGCAAGCTGAGTGAAGGATCTTGCAAGCCCG 2275
QY 181 TGGGCGGATCTCTCATTTGATGACTCTTCAAGATCACTCGAAGATCAAGGCACTTGAG 240
DB 2276 TGGGCGGATCTCTCATTTGATGACTCTTCAAGATCACTCGAAGATCAAGGCACTTGAG 2335
QY 241 GAGAAATTTGCGGCTCTGAAAGAGACGTGAGCCAGTCAATGACCTTGCTGCGCAGCTTA 300
DB 2336 GAGAAATTTGCGGCTCTGAAAGAGACGTGAGCCAGTCAATGACCTTGCTGCGCAGCTTA 2395
QY 301 CCACTTTGGGCAATTCAGCTCTGACCGTATTAACCTGAGCACTTGGAAGACCTGAACCA 360
DB 2396 CCACTTTGGGCAATTCAGCTCTGACCGTATTAACCTGAGCACTTGGAAGACCTGAACCA 2455
QY 361 GATGGAAGCTTTGCGAGAGTGGCCCTCGAGAGCCAGTCAAGGCACTGCAATGAACCCCA 420
DB 2456 GATGGAAGCTTTGCGAGAGTGGCCCTCGAGAGCCAGTCAAGGCACTGCAATGAACCCCA 2515
QY 421 GGGACTTTGGTCCGAGATCTGAGCACTTTCTTTCACAGTCTGTCAGGGTCCCTGGGAGA 480
DB 2516 GGGACTTTGGTCCGAGATCTGAGCACTTTCTTTCACAGTCTGTCAGGGTCCCTGGGAGA 2575
QY 481 GAGGCATCTGCGCAACAAAGTGCCTTATATATCAACCAAGAGACTTCAACCACTTGCT 540
DB 2576 GAGGCATCTGCGCAACAAAGTGCCTTATATATCAACCAAGAGACTTCAACCACTTGCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTTACCAAGTCTTTAGTGAAGTGAATATGTCAGAT 600
DB 2636 GGGACCATCCCAAAATGACAGAGCTTACCAAGTCTTTAGTGAAGTGAATATGTCAGAT 2695
QY 601 TCTCAGCTTATAGAGCTGCGCATGAAACTCGAAGACTGCAAGAGGCCCTTGTGATC 660

DB 2696 TCTCAGCTTATAGAGCTGCGCATGAAACTCGAAGACTGCAAGAGGCCCTTGTGATC 2755
QY 661 TCTTGAAGCTGTCAGCTGCAATGATGATGCTTGGACCGACCAACCTCAAGAAATGACC 720
DB 2756 TCTTGAAGCTGTCAGCTGCAATGATGATGCTTGGACCGACCAACCTCAAGAAATGACC 2815
QY 721 AGCCATGATATCTGCAAGTATTAATGTTTGAACCACTATTTATGACCGCTGAGC 780
DB 2816 AGCCATGATATCTGCAAGTATTAATGTTTGAACCACTATTTATGACCGCTGAGC 2875
QY 781 AAGACCAACAATTTGTCACACTCTCTCTGCGTGAATATGTCGAATGCGCTGC 840
DB 2876 AAGACCAACAATTTGTCACACTCTCTCTGCGTGAATATGTCGAATGCGCTGC 2935
QY 841 TGAATGTTTATGATACGGGACGAACAGGGAGATCCGTCCTCTTTTAAACCTGCA 900
DB 2936 TGAATGTTTATGATACGGGACGAACAGGGAGATCCGTCCTCTTTTAAACCTGCA 2995
QY 901 TCATTTCCCTGTTAAAGCACAATTGGAAGCAAGTACAGTACCTTTCAAGCAAGTGC 960
DB 2996 TCATTTCCCTGTTAAAGCACAATTGGAAGCAAGTACAGTACCTTTCAAGCAAGTGC 3055
QY 961 CAACTTCAACAGATTTTGTGACCAAGCGCAGGCTGCGCTCTCTGATGATCTATCC 1020
DB 3056 CAACTTCAACAGATTTTGTGACCAAGCGCAGGCTGCGCTCTCTGATGATCTATCC 3115
QY 1021 AAATTTCAACAGATTTGAGTGAAGTATGCTTCTTTGGGGGAGTAACTTGAAGCAAGTGC 1080
DB 3116 AAATTTCAACAGATTTGAGTGAAGTATGCTTCTTTGGGGGAGTAACTTGAAGCAAGTGC 3175
QY 1081 TCCGAGCTGCTTCAATTTGCTATATATAGCCAGAGATGGAAGCGGCTCTTCTAG 1140
DB 3176 TCCGAGCTGCTTCAATTTGCTATATATAGCCAGAGATGGAAGCGGCTCTTCTAG 3235
QY 1141 ACTGATGAGCTTGAACCCCAAGTCAATGATGCTGCGCTGCTGCAAGTGCCTG 1200
DB 3236 ACTGATGAGCTTGAACCCCAAGTCAATGATGCTGCGCTGCTGCAAGTGCCTG 3285
QY 1201 CTGCGAAGATCTGCGCAACATCAAGCCCAATGTACATCTGGAAGATGTCATCATG 1260
DB 3296 CTGCGAAGATCTGCGCAACATCAAGCCCAATGTACATCTGGAAGATGTCATCATG 3355
QY 1261 GATTCAGTACAGAGCTTAAAGCACTTATATATGACATGTCGCAAGCTGCTTTT 1320
DB 3356 GATTCAGTACAGAGCTTAAAGCACTTATATATGACATGTCGCAAGCTGCTTTT 3415
QY 1321 CTGCTGAGTTGCAAAAGGCCATTAATGCACTATCCATGCTGGAATATTGCACTCGA 1380
DB 3416 CTGCTGAGTTGCAAAAGGCCATTAATGCACTATCCATGCTGGAATATTGCACTCGA 3475
QY 1381 CTATCATGAGGAAGATGTTGAGACTTTGCGCAAGTACTTAAATAAATAATTTGAACCA 1440
DB 3476 CTATCATGAGGAAGATGTTGAGACTTTGCGCAAGTACTTAAATAAATAATTTGAACCA 3535
QY 1441 AAAGTATTTTGGAGACATCCCGAATGGGCTACTGCGAGTCAAGCTGCTTGAAGG 1500
DB 3536 AAAGTATTTTGGAGACATCCCGAATGGGCTACTGCGAGTCAAGCTGCTTGAAGG 3595
QY 1501 G 1501
DB 3596 G 3596

RESULT 10

US-09-949-016-2810
; Sequence 2810, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307

CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241, 755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237, 768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231, 498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 2810
LENGTH: 7070
TYPE: DNA
ORGANISM: Human
US-09-949-016-2810

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTCTACGAAAGCAGGCTGAGAGGTCAATACAGTGGGAAAATTGAACCTGCACTCCG 60
DB 2096 TTCTACGAAAGCAGGCTGAGAGGTCAATACAGTGGGAAAATTGAACCTGCACTCCG 2155
QY 61 CTGACTGCGAGAGAAAATGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGCCCA 120
DB 2156 CTGACTGCGAGAGAAAATGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGCCCA 2215
QY 121 CGGATAGCTGAGACTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCG 180
DB 2216 CGGATAGCTGAGACTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCG 2275
QY 181 TGGGCGATCTCCCTCAATGACTCTCCCAAGATCACTTGAAGAACTCAAGGCACTTTCAG 240
DB 2276 TGGGCGATCTCCCTCAATGACTCTCCCAAGATCACTTGAAGAACTCAAGGCACTTTCAG 2335
QY 241 GAGAAATTCGCGCTCTGAAAGAAAGCTGAGCCAGCTCAATGACTTCTGCGCAGCTTA 300
DB 2336 GAGAAATTCGCGCTCTGAAAGAAAGCTGAGCCAGCTCAATGACTTCTGCGCAGCTTA 2395
QY 301 CCACCTTGGGCAATTCAGCTCTTCAACCTTAACTTCAAGCACTTGGAGAACTTGAACCA 360
DB 2396 CCACCTTGGGCAATTCAGCTCTTCAACCTTAACTTCAAGCACTTGGAGAACTTGAACCA 2455
QY 361 GATGAGACTTCTGAGGTGCGCTGAGAGAACGAGTCAAGGCAAGTGTGATGAACCCACA 420
DB 2456 GATGAGACTTCTGAGGTGCGCTGAGAGAACGAGTCAAGGCAAGTGTGATGAACCCACA 2515
QY 421 GGGATTTGGTTCAGCACTCAAGCACTTCTTTCACAGTCTGTCAGAGGTCCCTGGAGGA 480
DB 2516 GGGATTTGGTTCAGCACTCAAGCACTTCTTTCACAGTCTGTCAGAGGTCCCTGGAGGA 2575
QY 481 GAGCATCTGCGCAAAACAAAGTGCCTAATATCAACCAAGAGACTTCAACCACTTGTCT 540
DB 2576 GAGCATCTGCGCAAAACAAAGTGCCTAATATCAACCAAGAGACTTCAACCACTTGTCT 2635
QY 541 GGGACATCCCAAAATGACAGAGCTCTACAGCTTTAGCTGACCTGAATATATGTGCAT 600
DB 2636 GGGACATCCCAAAATGACAGAGCTCTACAGCTTTAGCTGACCTGAATATATGTGCAT 2695
QY 601 TCTCAGCTTATGAGACTGCGCAATGAACCTCCGAAGACTGCGAAAGGCCCTTGTGTTGATC 660
DB 2696 TCTCAGCTTATGAGACTGCGCAATGAACCTCCGAAGACTGCGAAAGGCCCTTGTGTTGATC 2755
QY 661 TCTTGAACCTGTCAAGCTGATGATGCTTGGACCGACCAACCTCAAGCAAAAGATGAC 720
DB 2756 TCTTGAACCTGTCAAGCTGATGATGCTTGGACCGACCAACCTCAAGCAAAAGATGAC 2815
QY 721 AGCCCAATGATATCTGCAATATTAATTTGATGACCACTATTTATGAACCGCTGAGAC 780
DB 2816 AGCCCAATGATATCTGCAATATTAATTTGATGACCACTATTTATGAACCGCTGAGAC 2875
QY 781 AAGAGCAACAATTTGGTCAAGCTCCCTCTGCGGTGAGATATGTCTGAAGCTGCTGC 840

DB 2876 AAGAGCAACAATTTGGTCAAGCTCCCTCTGCTGATATATGTCTGAAGCTGCTGC 2935
QY 841 TGAATGTTTATGATACGAGGAGCAACAGGAGATCCGTTCTGCTTTTAAACTGGCA 900
DB 2936 TGAATGTTTATGATACGAGGAGCAACAGGAGATCCGTTCTGCTTTTAAACTGGCA 2995
QY 901 TCAATTCCTGTGTAAAGCAATTTGGAGACAAGTACAGATACCTTTTCAAGCAATGG 960
DB 2996 TCAATTCCTGTGTAAAGCAATTTGGAGACAAGTACAGATACCTTTTCAAGCAATGG 3055
QY 961 CAAGTTTCAACAGGATTTTGTGACCAAGCGCAGGCTGCGCTCTCTGCAATATTCATCC 1020
DB 3056 CAAGTTTCAACAGGATTTTGTGACCAAGCGCAGGCTGCGCTCTCTGCAATATTCATCC 3115
QY 1021 AAATTCACAGACAGTTGGGTGAATGTCATCTTGGGGGAGTAACTTGAAGCAAGTG 1080
DB 3116 AAATTCACAGACAGTTGGGTGAATGTCATCTTGGGGGAGTAACTTGAAGCAAGTG 3175
QY 1081 TCCGAGCTGCTTCCAAATTTGCTATATATAGCCAGATCGAAGCGCCCTTCTAG 1140
DB 3176 TCCGAGCTGCTTCCAAATTTGCTATATATAGCCAGATCGAAGCGCCCTTCTAG 3235
QY 1141 ACTGATGAGACTGGAACCCCAAGTCAATGTTGCTGCGCCCTGCAAGAGTGGTG 1200
DB 3236 ACTGATGAGACTGGAACCCCAAGTCAATGTTGCTGCGCCCTGCAAGAGTGGTG 3295
QY 1201 CTGAGAAACTGCCAGACATCGAGCCCAATGTAACATCTGCAAGAGTGTCAATCATG 1260
DB 3296 CTGAGAAACTGCCAGACATCGAGCCCAATGTAACATCTGCAAGAGTGTCAATCATG 3355
QY 1261 GATTCAGTACAGAGGCTTAAAGCACTTAAATATATAGCATCTGCCAAAGCTGTTTTTT 1320
DB 3356 GATTCAGTACAGAGGCTTAAAGCACTTAAATATATAGCATCTGCCAAAGCTGTTTTTT 3415
QY 1321 CTGTTGAGTTGCAAAAGCCATTAATGCACTATCCATGTTGTAATTTGCACTCCGA 1380
DB 3416 CTGTTGAGTTGCAAAAGCCATTAATGCACTATCCATGTTGTAATTTGCACTCCGA 3475
QY 1381 CTACATCAGAGAGAGATGTTGAGACTTTGGCAAGGTACTTAAACCAATTTGACCA 1440
DB 3476 CTACATCAGAGAGAGATGTTGAGACTTTGGCAAGGTACTTAAACCAATTTGACCA 3535
QY 1441 AAAGTATTTTGGAGACATCCCGATATGGCTACCTGCACTGCACTGTCTTAGAG 1500
DB 3536 AAAGTATTTTGGAGACATCCCGATATGGCTACCTGCACTGCACTGTCTTAGAG 3595
QY 1501 G 1501
DB 3596 G 3596

RESULT 11
US-09-949-016-2811
; Sequence 2811, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2811
; LENGTH: 7070

TYPE: DNA
ORGANISM: Human
US-09-949-016-2811

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTTTACGAAAGCAGGCTGAGAGGCTCAATCTGAGTGGGAAAAATTGAACTGCACTCCG 60
DB TTTTACGAAAGCAGGCTGAGAGGCTCAATCTGAGTGGGAAAAATTGAACTGCACTCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGTAGAGCCCTGTAAGATCTCCAGAACTTCAAGAGGCA 120
DB CTGACTGGCAGAGAAAAATAGTAGAGCCCTGTAAGATCTCCAGAACTTCAAGAGGCA 2215
QY 121 CGGATGAGCTGAGCCTTCAGCTGGCCCAAGCTGAGTATCAAGGATCTTGGAGCCG 180
DB CGGATGAGCTGAGCCTTCAGCTGGCCCAAGCTGAGTATCAAGGATCTTGGAGCCG 2275
QY 181 TGGGCGATCTCTCTATTTGATCTCTTCCAGATCACTTCGAGAAATCAAGGACTTGGAG 240
DB TGGGCGATCTCTCTATTTGATCTCTTCCAGATCACTTCGAGAAATCAAGGACTTGGAG 2335
QY 241 GAGAAATTTGGGCTCTGAAAGAGAACGTGAGCCAGCTCAATGACCTTGGCTGGCAGCTTA 300
DB GAGAAATTTGGGCTCTGAAAGAGAACGTGAGCCAGCTCAATGACCTTGGCTGGCAGCTTA 2395
QY 301 CCACTTTGGGCACTTCACTCTCACTGATTAACCTCAGACCTTGGAAAGCCTGAAACCA 360
DB CCACTTTGGGCACTTCACTCTCACTGATTAACCTCAGACCTTGGAAAGCCTGAAACCA 2395
QY 2396 CCACTTTGGGCACTTCACTCTCACTGATTAACCTCAGACCTTGGAAAGCCTGAAACCA 2455
QY 361 GATGGAAGCTTCTGAGAGTGGCCGTGAGAGCCAGATCAAGGACTGATGAACCCCA 420
DB GATGGAAGCTTCTGAGAGTGGCCGTGAGAGCCAGATCAAGGACTGATGAACCCCA 2515
QY 2456 GATGGAAGCTTCTGAGAGTGGCCGTGAGAGCCAGATCAAGGACTGATGAACCCCA 2515
QY 421 GGGACCTTGGTCCAGCATCTCAGACCTTCTTCCAGCTGCTCAGAGGTCCCTGGGAGA 480
DB GGGACCTTGGTCCAGCATCTCAGACCTTCTTCCAGCTGCTCAGAGGTCCCTGGGAGA 2516
QY 2516 GGGACCTTGGTCCAGCATCTCAGACCTTCTTCCAGCTGCTCAGAGGTCCCTGGGAGA 2575
QY 481 GAGCCATCTGCGCAAAACAAAGTGCCTTATATCAACCAAGAGACTCAACCACTTGTCT 540
DB GAGCCATCTGCGCAAAACAAAGTGCCTTATATCAACCAAGAGACTCAACCACTTGTCT 2576
QY 2576 GAGCCATCTGCGCAAAACAAAGTGCCTTATATCAACCAAGAGACTCAACCACTTGTCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTCTACAGCTTTTGAAGTGAATATGTCAGAT 600
DB GGGACCATCCCAAAATGACAGAGCTCTACAGCTTTTGAAGTGAATATGTCAGAT 2636
QY 2636 GGGACCATCCCAAAATGACAGAGCTCTACAGCTTTTGAAGTGAATATGTCAGAT 2695
QY 601 TCTCAGCTTATAGGACCTGCAATGAACTCCGAGAGCTGAGAGGCCCTTGTGGATC 660
DB TCTCAGCTTATAGGACCTGCAATGAACTCCGAGAGCTGAGAGGCCCTTGTGGATC 2696
QY 2696 TCTCAGCTTATAGGACCTGCAATGAACTCCGAGAGCTGAGAGGCCCTTGTGGATC 2755
QY 661 TCTTGAACCTGTCACTGATGATGCTTGAAGCAGACCAACCTCAAGCAAAATGACC 720
DB TCTTGAACCTGTCACTGATGATGCTTGAAGCAGACCAACCTCAAGCAAAATGACC 2756
QY 2756 TCTTGAACCTGTCACTGATGATGCTTGAAGCAGACCAACCTCAAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTCCAGATTAATTAATTTGACCACTATTTTGAACCCCTGGAGC 780
DB AGCCCATGATATCTCCAGATTAATTAATTTGACCACTATTTTGAACCCCTGGAGC 2816
QY 2816 AGCCCATGATATCTCCAGATTAATTAATTTGACCACTATTTTGAACCCCTGGAGC 2875
QY 781 AAGAGCAACAATTTGGTCAACGTCCCTCTGCGGAGATATGTCGTAACCTGGCTGC 840
DB AAGAGCAACAATTTGGTCAACGTCCCTCTGCGGAGATATGTCGTAACCTGGCTGC 2876
QY 2876 AAGAGCAACAATTTGGTCAACGTCCCTCTGCGGAGATATGTCGTAACCTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGGAGCAAGGAGATCCGTCCTGCTTTTAAACTGGCA 900
DB TGAATGTTTATGATACGGGAGCAAGGAGATCCGTCCTGCTTTTAAACTGGCA 2936
QY 2936 TGAATGTTTATGATACGGGAGCAAGGAGATCCGTCCTGCTTTTAAACTGGCA 2995
QY 901 TCATTTCCCTGTGTAAAGCATTGGAAGCAAGTACAGTACCTTTTCAAGCAAGTGG 960
DB TCATTTCCCTGTGTAAAGCATTGGAAGCAAGTACAGTACCTTTTCAAGCAAGTGG 2996
QY 2996 TCATTTCCCTGTGTAAAGCATTGGAAGCAAGTACAGTACCTTTTCAAGCAAGTGG 3055
QY 961 CAAGTTCAACGAGATTTTGTGACAGGCGAGGCTGGGCTCTCTTGTGATGATTTCTATCC 1020

DB 3056 CAAGTTCAACGAGATTTTGTGACAGGCGAGGCTGGGCTCTCTTGTGATGATTTCTATCC 3115
QY 1021 AAATTCGAAGCAGTGGTGAAGTTCATCTTTGGGGGAGTAATGAGCAAGTGG 1080
DB AAATTCGAAGCAGTGGTGAAGTTCATCTTTGGGGGAGTAATGAGCAAGTGG 3116
QY 1081 TCCGAGCTGCTTCAATTTGCTTAATATAGCCAGAGATGGAAGCGGCCCTTCTCTAG 1140
DB TCCGAGCTGCTTCAATTTGCTTAATATAGCCAGAGATGGAAGCGGCCCTTCTCTAG 3176
QY 1141 ACTGATGAGACTGGAACCCCAAGTCATGCTGCTGCTCCCTCTGCAAGAGTGGCTG 1200
DB ACTGATGAGACTGGAACCCCAAGTCATGCTGCTGCTCCCTCTGCAAGAGTGGCTG 3236
QY 1201 CTGAGAAACTGCCAGACATCAAGCCAAATGTACATCTGCAAGAGTTCATCAATTG 1260
DB CTGAGAAACTGCCAGACATCAAGCCAAATGTACATCTGCAAGAGTTCATCAATTG 3296
QY 1261 GATTCAGGTAACAGAGCTTAAGCACTTTAATATGACATCTGCAAGAGTCTTTTCTT 1320
DB GATTCAGGTAACAGAGCTTAAGCACTTTAATATGACATCTGCAAGAGTCTTTTCTT 3356
QY 1321 CTGCTCAGATTGCAAAAGCCATTAATAATGCACTATCCATGCTGGAATATTGCACTCCGA 1380
DB CTGCTCAGATTGCAAAAGCCATTAATAATGCACTATCCATGCTGGAATATTGCACTCCGA 3416
QY 1381 CTATCATGAGAGAAATGCTTGAAGCTTTGGCAAGGTAATTAATAATTTGGAACCA 1440
DB CTATCATGAGAGAAATGCTTGAAGCTTTGGCAAGGTAATTAATAATTTGGAACCA 3476
QY 1441 AAAGTATTTTGGAGAGATCCCGGAATGGGCTACCTGCGAGTCAAGCTGCTTGAAGG 1500
DB AAAGTATTTTGGAGAGATCCCGGAATGGGCTACCTGCGAGTCAAGCTGCTTGAAGG 3536
QY 1501 G 1501
DB 3596 G 3596

RESULT 12
US-09-949-016-2812
Sequence 2812, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2812
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2812

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTTTACGAAAGCAGGCTGAGAGGCTCAATCTGAGTGGGAAAAATTGAACTGCACTCCG 60
DB TTTTACGAAAGCAGGCTGAGAGGCTCAATCTGAGTGGGAAAAATTGAACTGCACTCCG 2155

QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGA CTCGAGAACTTTCAAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGA CTCGAGAACTTTCAAGGCCA 2215
QY 121 CGGATGACTGGA CTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTTGAGAGCCG 180
Db 2216 CGGATGACTGGA CTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTTGAGAGCCG 2275
QY 181 TGGGCAATCTCTCAATTAAGTCACTCTGAGAAAGTCAAGGACTTTCGAG 240
Db 2276 TGGGCAATCTCTCAATTAAGTCACTCTGAGAAAGTCAAGGACTTTCGAG 2335
QY 241 GAGAAATTCGCGCTCTGAAAGAGAAAGTGAAGCCAGTCAATGAAGTCTTGAGAGCTTA 300
Db 2336 GAGAAATTCGCGCTCTGAAAGAGAAAGTGAAGCCAGTCAATGAAGTCTTGAGAGCTTA 2395
QY 301 CCACTTTGGGCAATTCAGCTCTCAACCGTATTAACCTTCAGACATCTTGAAAGACTTGAACCA 360
Db 2396 CCACTTTGGGCAATTCAGCTCTCAACCGTATTAACCTTCAGACATCTTGAAAGACTTGAACCA 2455
QY 361 GATGGAAGCTTCTGAGAGTGGCCGTCGAGAGCCGAGTCAAGGAGCTGCAATGAAGCCACA 420
Db 2456 GATGGAAGCTTCTGAGAGTGGCCGTCGAGAGCCGAGTCAAGGAGCTGCAATGAAGCCACA 2515
QY 421 GGGACTTTGGTCCAGAGATCTCAAGACTTTTTCACGTCGTCTGAGGGTCCCTGAGAGA 480
Db 2516 GGGACTTTGGTCCAGAGATCTCAAGACTTTTTCACGTCGTCTGAGGGTCCCTGAGAGA 2575
QY 481 GAGCCATCTTCGCAAA CAAAGTGCCCTACTATATCAACAGCAGACTCAAAAGACTGCT 540
Db 2576 GAGCCATCTTCGCAAA CAAAGTGCCCTACTATATCAACAGCAGACTCAAAAGACTGCT 2635
QY 541 GGGACATCCCAAAATGAGACAGAGCTTACAGCTTTTACCTGAGCTGAATTAATGTCAGAT 600
Db 2636 GGGACATCCCAAAATGAGACAGAGCTTACAGCTTTTACCTGAGCTGAATTAATGTCAGAT 2695
QY 601 TCTCAGCTTATAGAGCTGCAATGAAGCTCCGAAAGCTGAGAGAGGCTTTGCTTGATC 660
Db 2696 TCTCAGCTTATAGAGCTGCAATGAAGCTCCGAAAGCTGAGAGAGGCTTTGCTTGATC 2755
QY 661 TCTTAGGCTGTCAGCTGATGTATGCTTGGACAGCACAACCTCAAGCAAAATGACC 720
Db 2756 TCTTAGGCTGTCAGCTGATGTATGCTTGGACAGCACAACCTCAAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTTCGAGATTAATTAATGTTTGAACACATTAATTAAGCCGCTGAGC 780
Db 2816 AGCCCATGATATCTTCGAGATTAATTAATGTTTGAACACATTAATTAAGCCGCTGAGC 2875
QY 781 AAGAGCAACAATTTGGTCAAGCTCCCTCTGCTGAGATATGTCGAACTGGCTGC 840
Db 2876 AAGAGCAACAATTTGGTCAAGCTCCCTCTGCTGAGATATGTCGAACTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGGACGAA CAGGAGGATCCGCTGCTCTTTTAAACCTGGCA 900
Db 2936 TGAATGTTTATGATACGGGACGAA CAGGAGGATCCGCTGCTCTTTTAAACCTGGCA 2995
QY 901 TCATTTCCCTGTGAAAGCACTTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTG 960
Db 2996 TCATTTCCCTGTGAAAGCACTTTGGAAGACAAGTACAGATACCTTTCAAGCAAGTG 3055
QY 961 CAAGTTCACAGATTTTGTGACCAAGCGAGGCTGGGCTCTCTTGCAATGATTTATTC 1020
Db 3056 CAAGTTCACAGATTTTGTGACCAAGCGAGGCTGGGCTCTCTTGCAATGATTTATTC 3115
QY 1021 AAATTTCCAAAGCAGTTGGTGAAGTTCATCTTTGGGGCAGTAACATTGAGCCAAAG 1080
Db 3116 AAATTTCCAAAGCAGTTGGTGAAGTTCATCTTTGGGGCAGTAACATTGAGCCAAAG 3175
QY 1081 TCCGAGCTGCTTCAATTTGCTAATTAATGAAGCAGAGTCAAGGAGGCTCTTCTAG 1140
Db 3176 TCCGAGCTGCTTCAATTTGCTAATTAATGAAGCAGAGTCAAGGAGGCTCTTCTAG 3235
QY 1141 ACTGATGAGACTGAAGCCCAAGTCCATGATGATGCTGCCGCTCTGACAGAGTGGCTG 1200

Db 3236 ACTGATGAGACTGAAGCCCAAGTCCATGATGATGCTGCCGCTCTGACAGAGTGGCTG 3295
QY 1201 CTGCAAGAACTGCCAAGCATCAAGGCAATGATTAATCATCTGCAAAAGAGTGTCAATCTG 1260
Db 3296 CTGCAAGAACTGCCAAGCATCAAGGCAATGATTAATCATCTGCAAAAGAGTGTCAATCTG 3355
QY 1261 GATTACAGGAGCAGAGTCTTAAAGCACTTTAATTAATGATCATCTGCCAAAGCTGCTTTT 1320
Db 3356 GATTACAGGAGCAGAGTCTTAAAGCACTTTAATTAATGATCATCTGCCAAAGCTGCTTTT 3415
QY 1321 CTGTCGAGTTGCAAAAGGCCATTAATGACATATCCATGAGTGAATTTGCACTCGA 1380
Db 3416 CTGTCGAGTTGCAAAAGGCCATTAATGACATATCCATGAGTGAATTTGCACTCGA 3475
QY 1381 CTACATCGAGAGAAAGATGTTGAGACATTTTGGCAAGGATCTTAAACAAATTTGCAACCA 1440
Db 3476 CTACATCGAGAGAAAGATGTTGAGACATTTTGGCAAGGATCTTAAACAAATTTGCAACCA 3535
QY 1441 AAAGTATTTTTCAGAGCATCCCGAATGGGCTTACCTGCGAGTGCAGACTGCTTTAGAG 1500
Db 3536 AAAGTATTTTTCAGAGCATCCCGAATGGGCTTACCTGCGAGTGCAGACTGCTTTAGAG 3595
QY 1501 G 1501
Db 3596 G 3596

RESULT 13
US-09-949-016-2813
; Sequence 2813, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTNER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: PaeRSeQ for Windows Version 4.0
; SEQ ID NO: 2813
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2813

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTTACGAAGACAGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCG 60
Db 2096 TTTACGAAGACAGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCG 2155
QY 61 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGA CTCGAGAACTTTCAAGGCCA 120
Db 2156 CTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGA CTCGAGAACTTTCAAGGCCA 2215
QY 121 CGGATGACTGGA CTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTTGAGAGCCG 180
Db 2216 CGGATGACTGGA CTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTTGAGAGCCG 2275
QY 181 TGGGCAATCTCTCAATTAAGTCACTCTGAGAAAGTCAAGGACTTTCGAG 240
Db 2276 TGGGCAATCTCTCAATTAAGTCACTCTGAGAAAGTCAAGGACTTTCGAG 2335

QY 241 GAGAAATTGCGCCTCTGTAAGAGAAAGTGAAGCAAGTCAATGATACCTTGCTGCGCAGCTTA 300
DB 2336 GAGAAATTGCGCCTCTGTAAGAGAAAGTGAAGCAAGTCAATGATACCTTGCTGCGCAGCTTA 2395
QY 301 CCACCTTTGGGCAATTCAGCTCTACCGTATTAACCTCAGCAGCTCTGAGAGACCTGAAACACCA 360
DB 2396 CCACCTTTGGGCAATTCAGCTCTACCGTATTAACCTCAGCAGCTCTGAGAGACCTGAAACACCA 2455
QY 361 GATGGAAGCTTCTGCAAGTGGCCGCTGAGAGACCAAGTGAAGCAGTGAATGAAGCCCA 420
DB 2456 GATGGAAGCTTCTGCAAGTGGCCGCTGAGAGACCAAGTGAAGCAGTGAATGAAGCCCA 2515
QY 421 GGGACCTTGGTCCAGCAGCTCTCAGCAGCTTCTTCCACGCTCTGTCCAGGGTCCCTGGAGAG 480
DB 2516 GGGACCTTGGTCCAGCAGCTCTCAGCAGCTTCTTCCACGCTCTGTCCAGGGTCCCTGGAGAG 2575
QY 481 GAGCCATCTGCGCAAAACAAAGTGCCCTTATATCAACACAGAGACTCAAAACAACTTGCT 540
DB 2576 GAGCCATCTGCGCAAAACAAAGTGCCCTTATATCAACACAGAGACTCAAAACAACTTGCT 2635
QY 541 GGGACCATCCCAAAATGACAGAGCTTACAGCTCTTTCAGCTGCTGCTGAATATGTCAGAT 600
DB 2636 GGGACCATCCCAAAATGACAGAGCTTACAGCTCTTTCAGCTGCTGCTGAATATGTCAGAT 2695
QY 601 TCTCAGCTTATAGGAGCTGCGCATGAAACTCCGAAAGCTCAGAAAGGCCCTTGCTTGATG 660
DB 2696 TCTCAGCTTATAGGAGCTGCGCATGAAACTCCGAAAGCTCAGAAAGGCCCTTGCTTGATG 2755
QY 661 TCTTGAAGCTGTGAGCTGAGTGAATGCTTGAACAGACAAACCTCAAGCAAAATGAC 720
DB 2756 TCTTGAAGCTGTGAGCTGAGTGAATGCTTGAACAGACAAACCTCAAGCAAAATGAC 2815
QY 721 AGCCCATGATATCTGCAAGTATTAATTTGTTGACCACTATTTATGACCGCTGAGC 780
DB 2816 AGCCCATGATATCTGCAAGTATTAATTTGTTGACCACTATTTATGACCGCTGAGC 2875
QY 781 AAGAGCAACAAATTTGGTCAACGCTCCTCTGCGTGAATATGTCGAACTGGCTGC 840
DB 2876 AAGAGCAACAAATTTGGTCAACGCTCCTCTGCGTGAATATGTCGAACTGGCTGC 2935
QY 841 TGAATGTTTATGATACGGGAGCAAGGAGAGATCCGTCTCTGATGATTTATCC 900
DB 2936 TGAATGTTTATGATACGGGAGCAAGGAGAGATCCGTCTCTGATGATTTATCC 2995
QY 901 TCAATTTCCCTGTGTAAGCAATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGC 960
DB 2996 TCAATTTCCCTGTGTAAGCAATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGC 3055
QY 961 CAAGTTCAACAGATTTTGTGACGAGGCTGGGCTCCTCTGATGATTTATCC 1020
DB 3056 CAAGTTCAACAGATTTTGTGACGAGGCTGGGCTCCTCTGATGATTTATCC 3115
QY 1021 AAATTTCCAGACAGTGGGTAAAGTTCATCTTTTGGGGGAGTAACATTGAGCCCAAGTGC 1080
DB 3116 AAATTTCCAGACAGTGGGTAAAGTTCATCTTTTGGGGGAGTAACATTGAGCCCAAGTGC 3175
QY 1081 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCCAGAGATGGAAGCGGCTCTTCTGAG 1140
DB 3176 TCCGAGCTGCTTCCAAATTTGCTAATTAATTAAGCCAGAGATGGAAGCGGCTCTTCTGAG 3235
QY 1141 ACTGGAATGAGCTGGAACCCAGTCCATGATGCTGCTGCTGCTGCAAGAGTGGCTG 1200
DB 3236 ACTGGAATGAGCTGGAACCCAGTCCATGATGCTGCTGCTGCTGCAAGAGTGGCTG 3295
QY 1201 CTGCAAGAACTGCGCAAGCATGAGGCAATGTAACATCTGCAAGAGTGTCCAAATCATTG 1260
DB 3296 CTGCAAGAACTGCGCAAGCATGAGGCAATGTAACATCTGCAAGAGTGTCCAAATCATTG 3355
QY 1261 GATTCAAGTATCAGAGCTTAAAGCACTTTAATATGACATCTGCGCAAGCTGCTTTT 1320
DB 3356 GATTCAAGTATCAGAGCTTAAAGCACTTTAATATGACATCTGCGCAAGCTGCTTTT 3415
QY 1321 CTGGTCAGTGTGCAAAAGGCAATAAATGACATATCCATGGTGAATATGCACTCCGA 1380

DB 3416 CTGGTCAGTGTGCAAAAGGCAATAAATGACATATCCATGATGGAATATGCACTCCGA 3475
QY 1381 CTACATCAGAGAAAGATTTTGAAGACTTTGGCCAAAGTACTTAAAAACAAATTTGCAACCA 1440
DB 3476 CTACATCAGAGAAAGATTTTGAAGACTTTGGCCAAAGTACTTAAAAACAAATTTGCAACCA 3535
QY 1441 AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTCCAGTGCAGACTGCTTAGAGG 1500
DB 3536 AAAGTATTTTGGCAAGCATCCCGAATGGGCTACCTCCAGTGCAGACTGCTTAGAGG 3595
QY 1501 G 1501
DB 3596 G 3596

RESULT 14
US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2814

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TTTTACGAAAGCAGGCTGAGAGGTCATTAATGAGTGGGAAAAATTTGAACCTGCCTCG 60
DB 2096 TTTTACGAAAGCAGGCTGAGAGGTCATTAATGAGTGGGAAAAATTTGAACCTGCCTCG 2155
QY 61 CTGACTGCGAAGAAAAATAGATGAGACCTTGAAGAAGCTCAGGAACTTCAAGAGGCA 120
DB 2156 CTGACTGCGAAGAAAAATAGATGAGACCTTGAAGAAGCTCAGGAACTTCAAGAGGCA 2215
QY 121 CGGATGAGCTGAGACTCAAGCTGCGCCAAAGCTGAGTGAAGGATCTGCGCAGCCG 180
DB 2216 CGGATGAGCTGAGACTCAAGCTGCGCCAAAGCTGAGTGAAGGATCTGCGCAGCCG 2275
QY 181 TGGGCGATCTCTCAATTAATGCTCTCCAAATCACTTGAAGAAATCAAGGCACTTGCAG 240
DB 2276 TGGGCGATCTCTCAATTAATGCTCTCCAAATCACTTGAAGAAATCAAGGCACTTGCAG 2335
QY 241 GAGAAATTGCGCCTCTGAAAGAAAGCAAGTGAAGCAAGTGAAGCACTTGGCCGAGCTTA 300
DB 2336 GAGAAATTGCGCCTCTGAAAGAAAGCAAGTGAAGCAAGTGAAGCACTTGGCCGAGCTTA 2395
QY 301 CCACCTTTGGGCAATTCAGCTCTACCGTATTAACCTCAGCAGCTCTGAGAGACCTGAAACACCA 360
DB 2396 CCACCTTTGGGCAATTCAGCTCTACCGTATTAACCTCAGCAGCTCTGAGAGACCTGAAACACCA 2455
QY 361 GATGGAAGCTTCTGCAAGTGGCCGCTGAGAGACCAAGTGAAGCAGTGAATGAAGCCCA 420
DB 2456 GATGGAAGCTTCTGCAAGTGGCCGCTGAGAGACCAAGTGAAGCAGTGAATGAAGCCCA 2515

QY 421 GGGACTTGGTCCAGCATCTGAGCACTTTCTTTCAGGCTGTCCAGGCTCCGGAGA 480
DB 2516 GGGACTTGGTCCAGCATCTGAGCACTTTCTTTCAGGCTGTCCAGGCTCCGGAGA 2575
QY 481 GAGCCATCTGGCCAAACAAGTGGCTTATATCAACAGAGACTCAACAACCTTGT 540
DB 2576 GAGCCATCTGGCCAAACAAGTGGCTTATATCAACAGAGACTCAACAACCTTGT 2635
QY 541 GGGACATCCCAAAATGACAGAGCTTACCGCTTTTAAAGCTTAAATATGTCAAT 600
DB 2636 GGGACATCCCAAAATGACAGAGCTTACCGCTTTTAAAGCTTAAATATGTCAAT 2695
QY 601 TCTAGCTTATAGAGCTGCCATGATTAACCTCCGAAAGCTGAGAGGCTTGTGGATC 660
DB 2696 TCTAGCTTATAGAGCTGCCATGATTAACCTCCGAAAGCTGAGAGGCTTGTGGATC 2755
QY 661 TCTTGAAGCTGTGAGCTGAGTGTGATGCTTGAACCGACCACTCCAGCAAAATGACC 720
DB 2756 TCTTGAAGCTGTGAGCTGAGTGTGATGCTTGAACCGACCACTCCAGCAAAATGACC 2815
QY 721 AGCCCATGATATCTGAGATTAATTAATTTGACCACTATTATTAACCGCTGGAGC 780
DB 2816 AGCCCATGATATCTGAGATTAATTAATTTGACCACTATTATTAACCGCTGGAGC 2875
QY 781 AAGAGCAACAATTTGGTCAAGTCCCTCTGCTGCTGATATGTGTGAACCTGGCTGC 840
DB 2876 AAGAGCAACAATTTGGTCAAGTCCCTCTGCTGCTGATATGTGTGAACCTGGCTGC 2935
QY 841 TGAATGTTATATGATACGAGAGCAACAGAGAGATCCGTCTGCTGCTTAAACCTGCA 900
DB 2936 TGAATGTTATATGATACGAGAGCAACAGAGAGATCCGTCTGCTGCTTAAACCTGCA 2995
QY 901 TCAATTCCTGCTGATAGCACTTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTG 960
DB 2996 TCAATTCCTGCTGATAGCACTTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTG 3055
QY 961 CAAATTCAGAGATTTGTGACAGCGAGCTGGGCTCTCTGATATTTCTATCC 1020
DB 3056 CAAATTCAGAGATTTGTGACAGCGAGCTGGGCTCTCTGATATTTCTATCC 3115
QY 1021 AAATTCAGAGATTTGTGATGATCTTTTGGGGGAGTAACTTGAAGCCAGTG 1080
DB 3116 AAATTCAGAGATTTGTGATGATCTTTTGGGGGAGTAACTTGAAGCCAGTG 3175
QY 1081 TCCGAGCTGCTTCCAAATTTGCTAATAAAGCCAGAGATGGAAGCGGCTCTTCTAG 1140
DB 3176 TCCGAGCTGCTTCCAAATTTGCTAATAAAGCCAGAGATGGAAGCGGCTCTTCTAG 3235
QY 1141 ACTGATAGAGCTGAACCCAGTTCATGATGTGGCTGCCCTCTGCAAGAGTGGCTG 1200
DB 3236 ACTGATAGAGCTGAACCCAGTTCATGATGTGGCTGCCCTCTGCAAGAGTGGCTG 3295
QY 1201 CTGAGAACTGCGCAAGCATGAGGCAAAATGTAATCTGCAAAAGATGTCAATCA 1260
DB 3296 CTGAGAACTGCGCAAGCATGAGGCAAAATGTAATCTGCAAAAGATGTCAATCA 3355
QY 1261 GATTCAGGTACAGAGATCTTAAAGCACTTATATGATCATCTGCCAAAGCTGCTTTT 1320
DB 3356 GATTCAGGTACAGAGATCTTAAAGCACTTATATGATCATCTGCCAAAGCTGCTTTT 3415
QY 1321 CTGCTGAGTTGCAAAAGGCAATAATGATATCCCATGTGTGAATTTGCACTCCGA 1380
DB 3416 CTGCTGAGTTGCAAAAGGCAATAATGATATCCCATGTGTGAATTTGCACTCCGA 3475
QY 1381 CTACATCAGAGAGATGTTCAGACTTTTCCAAAGGTACTTAAAAAACAATTTGCAACA 1440
DB 3476 CTACATCAGAGAGATGTTCAGACTTTTCCAAAGGTACTTAAAAAACAATTTGCAACA 3535
QY 1441 AAAAGTATTTTGGAGGCACTCCCGAAATGGGCTACTCTGCAAGTCACTGTCTTGAAG 1500
DB 3536 AAAAGTATTTTGGAGGCACTCCCGAAATGGGCTACTCTGCAAGTCACTGTCTTGAAG 3595
QY 1501 G 1501

DB 3596 G 3596

RESULT 15
US-09-949-016-2815
/ Sequence 2815, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CLO01307
/ CURRENT APPLICATION NUMBER: US/09/949, 016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 2815
/ LENGTH: 7109
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-2815

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 241 GAGAAATTCGCGCTTGAAGAGAACTGAGCCAGTCAATGACCTTGGCCAGCTTA 300
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GenCore version 5.1.6
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 81813359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

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; Sequence 1, Application US/09687875A
; Patent No. 654786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
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; SEQ ID NO 1
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; NAME/KEY: misc feature
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; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1
Query Match 100.0%; Score 1501; DB 4; Length 5952;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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/ Sequence 2831, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CU001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2831
/ LENGTH: 5627
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-2831
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Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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; Sequence 2832, Application US/09949016
; Patent No. 6812319
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832

Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 675 AAAGACTCCAGAACTTCAAGAGGCAAGATGAGCTGAGCTCAAGCTGCGCAAGTG 734
Qy 481 AGGTATCAAGGATCTTGGAGCCCGTGGGCGATCTCTCATTTAGCTCTTCAAGATC 540
Db 735 AGGTATCAAGGATCTTGGAGCCCGTGGGCGATCTCTCATTTAGCTCTTCAAGATC 794
Qy 541 ACCTGAGAAAGTCAAGGACTTTCAGAGGAAATTCGCGCTTGAAGAGAACTGAGCC 600
Db 795 ACCTGAGAAAGTCAAGGACTTTCAGAGGAAATTCGCGCTTGAAGAGAACTGAGCC 854
Qy 601 AGCTCAATGACCTTCTGCGCCAGCTTACCACTTTGCGCATTCAGCTTCAACCTTAAC 660

```

Db 855 ACGTCATGACCTGCTGCGCAGCTTACCACTTTGGGCACTTCAGCTCTACCGTATACC 914
Qy 661 TCAGCACTCTGGAAGACCTGGAACACCAAGATGGAAGCTTTCGAGAGTGGCCGTGAGAAC 720
Db 915 TCAGCACTCTGGAAGACCTGGAACACCAAGATGGAAGCTTTCGAGAGTGGCCGTGAGAAC 974
Qy 721 GAGTCAGGCACTGCAATGAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTTCTT 780
Db 975 GAGTCAGGCACTGCAATGAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTTCTT 1034
Qy 781 CCAGCTCTGTCAGAGGTCCTCGGAGAGAGCATCTGCGCAACAAAGTCCCTACTATA 840
Db 1035 CCAAGTCTGTCAGAGGTCCTCGGAGAGAGCATCTGCGCAACAAAGTCCCTACTATA 1094
Qy 841 TCAACCAAGAGACTCAACCAACTTGTGAGGACCATCCCAAAATGACAGAGCTTACAGT 900
Db 1095 TCAACCAAGAGACTCAACCAACTTGTGAGGACCATCCCAAAATGACAGAGCTTACAGT 1154
Qy 901 CTTAGAGTCACTGGAATATGTCAGATTCTCAGCTTATAGAGCTGCCATGAACTCCGA 960
Db 1155 CTTAGAGTCACTGGAATATGTCAGATTCTCAGCTTATAGAGCTGCCATGAACTCCGA 1214
Qy 961 GACTGCAAGAGCCCTTGTGATCTCTTGAAGCTGTCAGCTGATGATGATGCTTGG 1020
Db 1215 GACTGCAAGAGCCCTTGTGATCTCTTGAAGCTGTCAGCTGATGATGATGCTTGG 1274
Qy 1021 ACCAGCAACCTTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTATTAATTGT 1080
Db 1275 ACCAGCAACCTTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTATTAATTGT 1334
Qy 1081 TGACCACTATTATGACCGCTGAGACCAAGACCAAAATTTGGTCAACGTCCTCTCT 1140
Db 1335 TGACCACTATTATGACCGCTGAGACCAAGACCAAAATTTGGTCAACGTCCTCTCT 1394
Qy 1141 GCGTGATATGTCGTAAGCTGCTGATGATGATGATGATGATGATGATGATGATG 1200
Db 1395 GCGTGATATGTCGTAAGCTGCTGATGATGATGATGATGATGATGATGATGATG 1454
Qy 1201 TCCGTGCTCTGCTTTTAAATGAGCATATTTCCCTGCTGTAAGCAATTTGGAACA 1260
Db 1455 TCCGTGCTCTGCTTTTAAATGAGCATATTTCCCTGCTGTAAGCAATTTGGAACA 1514
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGAAGTTCACAGATTTTGTGACAGGCGAGC 1320
Db 1515 AGTACAGATACCTTTTCAAGCAAGTGAAGTTCACAGATTTTGTGACAGGCGAGC 1574
Qy 1321 TGGGCTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1380
Db 1575 TGGGCTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1634
Qy 1381 TTGGGGGAGTAACTTGAAGCAAGTGTCCGAGAGCTGCTTCAATTTGCTAATAATAGC 1440
Db 1635 TTGGGGGAGTAACTTGAAGCAAGTGTCCGAGAGCTGCTTCAATTTGCTAATAATAGC 1694
Qy 1441 CAGAGATGAAGCGGCTCTTCTTGAAGCTGATGAGTGAAGCCCAAGTCCATGATG 1500
Db 1695 CAGAGATGAAGCGGCTCTTCTTGAAGCTGATGAGTGAAGCCCAAGTCCATGATG 1754
Qy 1501 G 1501
Db 1755 G 1755

RESULT 4
US-09-949-016-2804
Sequence 2804, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949, 016

Qy 855 ACGTCATGACCTGCTGCGCAGCTTACCACTTTGGGCACTTCAGCTCTACCGTATACC 914
Qy 661 TCAGCACTCTGGAAGACCTGGAACACCAAGATGGAAGCTTTCGAGAGTGGCCGTGAGAAC 720
Qy 915 TCAGCACTCTGGAAGACCTGGAACACCAAGATGGAAGCTTTCGAGAGTGGCCGTGAGAAC 974
Qy 721 GAGTCAGGCACTGCAATGAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTTCTT 780
Qy 975 GAGTCAGGCACTGCAATGAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTTCTT 1034
Qy 781 CCAGCTCTGTCAGAGGTCCTCGGAGAGAGCATCTGCGCAACAAAGTCCCTACTATA 840
Qy 1035 CCAAGTCTGTCAGAGGTCCTCGGAGAGAGCATCTGCGCAACAAAGTCCCTACTATA 1094
Qy 841 TCAACCAAGAGACTCAACCAACTTGTGAGGACCATCCCAAAATGACAGAGCTTACAGT 900
Qy 1095 TCAACCAAGAGACTCAACCAACTTGTGAGGACCATCCCAAAATGACAGAGCTTACAGT 1154
Qy 901 CTTAGAGTCACTGGAATATGTCAGATTCTCAGCTTATAGAGCTGCCATGAACTCCGA 960
Qy 1155 CTTAGAGTCACTGGAATATGTCAGATTCTCAGCTTATAGAGCTGCCATGAACTCCGA 1214
Qy 961 GACTGCAAGAGCCCTTGTGATCTCTTGAAGCTGTCAGCTGATGATGATGCTTGG 1020
Qy 1215 GACTGCAAGAGCCCTTGTGATCTCTTGAAGCTGTCAGCTGATGATGATGCTTGG 1274
Qy 1021 ACCAGCAACCTTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTATTAATTGT 1080
Qy 1275 ACCAGCAACCTTCAAGCAAAATGACCAAGCCATGATATCTCGAGATTATTAATTGT 1334
Qy 1081 TGACCACTATTATGACCGCTGAGACCAAGACCAAAATTTGGTCAACGTCCTCTCT 1140
Qy 1335 TGACCACTATTATGACCGCTGAGACCAAGACCAAAATTTGGTCAACGTCCTCTCT 1394
Qy 1141 GCGTGATATGTCGTAAGCTGCTGATGATGATGATGATGATGATGATGATGATG 1200
Qy 1395 GCGTGATATGTCGTAAGCTGCTGATGATGATGATGATGATGATGATGATGATG 1454
Qy 1201 TCCGTGCTCTGCTTTTAAATGAGCATATTTCCCTGCTGTAAGCAATTTGGAACA 1260
Qy 1455 TCCGTGCTCTGCTTTTAAATGAGCATATTTCCCTGCTGTAAGCAATTTGGAACA 1514
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGAAGTTCACAGATTTTGTGACAGGCGAGC 1320
Qy 1515 AGTACAGATACCTTTTCAAGCAAGTGAAGTTCACAGATTTTGTGACAGGCGAGC 1574
Qy 1321 TGGGCTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1380
Qy 1575 TGGGCTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1634
Qy 1381 TTGGGGGAGTAACTTGAAGCAAGTGTCCGAGAGCTGCTTCAATTTGCTAATAATAGC 1440
Qy 1635 TTGGGGGAGTAACTTGAAGCAAGTGTCCGAGAGCTGCTTCAATTTGCTAATAATAGC 1694
Qy 1441 CAGAGATGAAGCGGCTCTTCTTGAAGCTGATGAGTGAAGCCCAAGTCCATGATG 1500
Qy 1695 CAGAGATGAAGCGGCTCTTCTTGAAGCTGATGAGTGAAGCCCAAGTCCATGATG 1754
Qy 1501 G 1501
Qy 1755 G 1755

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACAGTGAAGCGTCTGCACTTTCTC 60
Db 1769 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACAGTGAAGCGTCTGCACTTTCTC 1828
Qy 61 TGCAAGAACTTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 1829 TGCAAGAACTTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1888
Qy 121 TTGAGAGCGACTTTCAGAGATTGCAAGAGCAAGATGATGATGATGATGATGATG 180
Db 1889 TTGAGAGCGACTTTCAGAGATTGCAAGAGCAAGATGATGATGATGATGATGATG 1948
Qy 181 AATTGAAATTAAGAACTGTAATCATGATGATGATGATGATGATGATGATGATG 240
Db 1949 AATTGAAATTAAGAACTGTAATCATGATGATGATGATGATGATGATGATGATG 2008
Qy 241 CAGAGAGCTTTCAGAGATTGCAAGAACTGTAAGAGCCAGAGAGCTGCTGCTGCTG 300
Db 2009 CAGAGAGCTTTCAGAGATTGCAAGAACTGTAAGAGCCAGAGAGCTGCTGCTGCTG 2068
Qy 301 AGGAGAGAGCCCAAGATGTCATCGGCTTCTACGAAGAGCGCTGAGAGATGATG 360
Db 2069 AGGAGAGAGCCCAAGATGTCATCGGCTTCTACGAAGAGCGCTGAGAGATGATG 2128
Qy 361 AGTGGGAAATTTGAACCTGCACTCGCTGATGATGATGATGATGATGATGATGATG 420
Db 2129 AGTGGGAAATTTGAACCTGCACTCGCTGATGATGATGATGATGATGATGATGATG 2188
Qy 421 AAGAGCTCAGAGACTTCAAGAGGCTCAGATGATGATGATGATGATGATGATGATG 480
Db 2189 AAGAGCTCAGAGACTTCAAGAGGCTCAGATGATGATGATGATGATGATGATGATG 2248
Qy 481 AGGTATCAAGGAGATCTGCGAGAGCCGCGGCGAGATCTCTATGATGATGATGATG 540
Db 2249 AGGTATCAAGGAGATCTGCGAGAGCCGCGGCGAGATCTCTATGATGATGATGATG 2308
Qy 541 ACCCTGAGAAATCAAGGACTTCAAGGAGAAATTCGCTCTGTAAGAGAGAGTGAAGC 600
Db 2309 ACCCTGAGAAATCAAGGACTTCAAGGAGAAATTCGCTCTGTAAGAGAGAGTGAAGC 2368
Qy 601 ACGTCAAGAGCTTCTGCGCAAGCTTACCACTTTGGGCACTTCACCGTATACC 660
Db 2369 ACGTCAAGAGCTTCTGCGCAAGCTTACCACTTTGGGCACTTCACCGTATACC 2428
Qy 661 TCAGCACTCTGGAAGACCTGGAACACCAAGATGGAAGCTTTCGAGAGTGGCCGTGAGAAC 720
Db 2429 TCAGCACTCTGGAAGACCTGGAACACCAAGATGGAAGCTTTCGAGAGTGGCCGTGAGAAC 2488
Qy 721 GAGTCAGGCACTGCAATGAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTTCTT 780
Db 2489 GAGTCAGGCACTGCAATGAGCCCAAGGACCTTTGGTCCAGCATCTCAGCACTTTCTT 2548
Qy 781 CCAGCTCTGTCAGAGGTCCTCGGAGAGAGCATCTTCCCAACAAAGTCCCTACTATA 840

Db 2549 CCACGCTGTCCAGGGTCCCTGGAGAGAGCCATCTCCGCAAAACAAGTCCCTACTATA 2608
Qy 841 TCAACACGAGAGCTCAACCACTTGTGGGACCATCCCAAAATGACAGAGCTCTACAGT 900
Db 2609 TCAACACGAGAGCTCAACCACTTGTGGGACCATCCCAAAATGACAGAGCTCTACAGT 2668
Qy 901 CTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGACTGCCAATGAACTCCGAA 960
Db 2669 CTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGACTGCCAATGAACTCCGAA 2728
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Db 2729 GACTGCAAGAGCCCTTTGCTTGGATCTCTTGGAGCCCTGACCTGATGATGCTCTGG 2788
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Db 2789 ACCGCAACCTCAAGAGAAATGACAGCCCATGATCTCTGAGATTAATTAATTTGT 2848
Qy 1081 TGACCACTATTATGACCGCTGAGACAGACAAATTTGGTCAACGTCCTCTCT 1140
Db 2849 TGACCACTATTATGACCGCTGAGACAGACAAATTTGGTCAACGTCCTCTCT 2908
Qy 1141 GCGTGATATGTCTGAACTGGCTGCTGATGTTTATGATACGGACGAAAGAGAGGA 1200
Db 2909 GCGTGATATGTCTGAACTGGCTGCTGATGTTTATGATACGGACGAAAGAGAGGA 2968
Qy 1201 TCCGTCCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAACACATTTTGAAGACA 1260
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Qy 1261 AGTACAGATACCTTTTCAAGCAATGGCAAGTTCACAGATTTTGTGACGAGCCAGGC 1320
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Db 3089 TGGGCTCTCTCTGATATCTATCCAAATTCACAGACAGTTGGTGAAGTTGATCCT 3148
Qy 1381 TTGGGGGAGATGACATGAGCAAGTCCGAGTCCGATTTCCAAATTTGCTAATTAAGC 1440
Db 3149 TTGGGGGAGATGACATGAGCAAGTCCGAGTCCGATTTCCAAATTTGCTAATTAAGC 3208
Qy 1441 CAGAGATGGAAGCGGCTCTCTCTAGACTGATGAGACTGGAACCCGATCATGATGT 1500
Db 3209 CAGAGATGGAAGCGGCTCTCTCTAGACTGATGAGACTGGAACCCGATCATGATGT 3268
Qy 1501 G 1501
Db 3269 G 3269

RESULT 5
US-09-949-016-2805
; Sequence 2805, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2805
; LENGTH: 7070
; TYPE: DNA

; ORGANISM: Human
US-09-949-016-2805
Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 TCAACATTAAGTCCATTTGGAAGCAGATTCAGACCAAGTGAAGGCTGACCTTTCTC 60
Db 1769 TCAACATTAAGTCCATTTGGAAGCAGATTCAGACCAAGTGAAGGCTGACCTTTCTC 1828
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Db 1829 TCAAGAACTTCTGATGTGGCTACAGCTGAAGATGATGAATTAAGCCGAGGACCTTA 1888
Qy 121 TTGAGAGGACCTTTCCAGACAGTTGAGAGCAAGAGATGATCATATGGGCTTCAAGAGG 180
Db 1889 TTGAGAGGACCTTTCCAGACAGTTGAGAGCAAGAGATGATCATATGGGCTTCAAGAGG 1948
Qy 181 AATTGAAAATTAAGAACTGTAATCATGAGTAATCTTGAAGACTGTAGCAATATTCTGA 240
Db 1949 AATTGAAAATTAAGAACTGTAATCATGAGTAATCTTGAAGACTGTAGCAATATTCTGA 2008
Qy 241 CAGAGACCTTTTGGAGAGACTAGAGAACTTACAGAGCCCAAGAGCTGCTCTCTG 300
Db 2009 CAGAGACCTTTTGGAGAGACTAGAGAACTTACAGAGCCCAAGAGCTGCTCTCTG 2068
Qy 301 AGGAGAGAGCCCAAGATGCTACGAGCTTTTCAAGAAACAGAGCTGAGAGTCAATACTG 360
Db 2069 AGGAGAGAGCCCAAGATGCTACGAGCTTTTCAAGAAACAGAGCTGAGAGTCAATACTG 2128
Qy 361 AGTGGGAAAAATTTGAACCTGCACTCGCTGACTGGCAGAGAAAAATGATGAGACCTTG 420
Db 2129 AGTGGGAAAAATTTGAACCTGCACTCGCTGACTGGCAGAGAAAAATGATGAGACCTTG 2188
Qy 421 AAAGACTCCAGAACTTCAAGAGGCAAGATGAGTGAACCTCAAGCTGCGCAAGCTG 480
Db 2189 AAAGACTCCAGAACTTCAAGAGGCAAGATGAGTGAACCTCAAGCTGCGCAAGCTG 2248
Qy 481 AGTGAATCAAGAGATCTCGGACAGCCCGTGGGCGATCTCTCAATTAATCTCTCCAAAGTC 540
Db 2249 AGTGAATCAAGAGATCTCGGACAGCCCGTGGGCGATCTCTCAATTAATCTCTCCAAAGTC 2308
Qy 541 ACCTGAGAAAGTCAAGGCACTTGAGAGAGAAATTTGGCCTCTGAAAGAGAGAGTGAAGC 600
Db 2309 ACCTGAGAAAGTCAAGGCACTTGAGAGAGAAATTTGGCCTCTGAAAGAGAGTGAAGC 2368
Qy 601 AGCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATTAAC 660
Db 2369 AGCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATTAAC 2428
Qy 661 TCAGCACTCTGGAAGACTTGAACACACAGATGGAAGCTTCTGAGGTGGCCCTCGAGAGCC 720
Db 2429 TCAGCACTCTGGAAGACTTGAACACACAGATGGAAGCTTCTGAGGTGGCCCTCGAGAGCC 2488
Qy 721 GAGTCAGGCACTGATGAAGCCCAAGGAGCTTTGGTCCAGCATCTCAGACCTTTCTT 780
Db 2489 GAGTCAGGCACTGATGAAGCCCAAGGAGCTTTGGTCCAGCATCTCAGACCTTTCTT 2548
Qy 781 CCACGCTGTCCAGGGTCCCTGGAGAGAGCCATCTCCGCAAAACAAGTGCCTACTATA 840
Db 2549 CCACGCTGTCCAGGGTCCCTGGAGAGAGCCATCTCCGCAAAACAAGTGCCTACTATA 2608
Qy 841 TCAACACGAGAGCTCAACCACTTGTGGGACCATCCCAAAATGACAGAGCTCTACAGT 900
Db 2609 TCAACACGAGAGCTCAACCACTTGTGGGACCATCCCAAAATGACAGAGCTCTACAGT 2668
Qy 901 CTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGACTGCCAATGAACTCCGAA 960
Db 2669 CTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGACTGCCAATGAACTCCGAA 2728
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Db 2729 GACTGCAGAAAGCCCTTGTGATCTCTTGAGCTGTGACGTGATGATGCTTGG 2788
Qy 1021 ACCAGCACAACCTCAAGCAAAATGACCGAGCCCATGATATCTGCAGATTATTAATGTT 1080
Db 2789 ACCAGCACAACCTCAAGCAAAATGACCGAGCCCATGATATCTGCAGATTATTAATGTT 2848
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Db 2849 TGACCACTATTATGACCGCTGAGAGCAAGACAACTATTTGGTCAAGTCCCTCTCT 2908
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Db 2909 GCGTGATATGTCCTGAATCTGCTGCTGAATGTTATGATACGGAGCAAGAGAGGA 2968
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Db 2969 TCGGTGCTGTCTTTTAAAGCTGGCATCTTCCCTGTAAAGCACTTTGGAAGCA 3028
Qy 1261 AGTACAGATACCTTTTAAAGAGTGGCAAGTTCACAGATTTTGTGACAGCGCAGGC 1320
Db 3029 AGTACAGATACCTTTTAAAGAGTGGCAAGTTCACAGATTTTGTGACAGCGCAGGC 3088
Qy 1321 TGGGCTCTCTTGCATGATTTATCAAAATTCAGACAGATGGGTGAAGTTCATCT 1380
Db 3089 TGGGCTCTCTTGCATGATTTATCAAAATTCAGACAGATGGGTGAAGTTCATCT 3148
Qy 1381 TTGGGGGCGATTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTGCTAATTAAGC 1440
Db 3149 TTGGGGGCGATTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTGCTAATTAAGC 3208
Qy 1441 CAGAGATCGAAGGCGCTCTCTCTAGCTGATGATGAGATGGAACCCCATGCTGATGT 1500
Db 3209 CAGAGATCGAAGGCGCTCTCTCTAGCTGATGATGAGATGGAACCCCATGCTGATGT 3268
Qy 1501 G 1501
Db 3269 G 3269

RESULT 6

US-09-949-016-2806
; Sequence 2806, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2806
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2806

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCAACATTAGTCCATTGTTGAAAGCAGTTCTGACGATGGAAGCGTCTGCACCTTTCTC 60
Db 1769 TCAACATTAGTCCATTGTTGAAAGCAGTTCTGACGATGGAAGCGTCTGCACCTTTCTC 1828
Qy 61 TGCAGAACTTCTGTGTGTGCTACAGCTGAAGAATGATGAATTAAGCCGGCAGGACCTTA 120

Db 1829 TGCAGAACTTCTGTGTGTGCTACAGCTGAAGAATGATGAATTAAGCCGGCAGGACCTTA 1888
Qy 121 TTGAGAGGACCTTTCCACAGCTTGAAGAGCAAGATGATCATAGGCTCTTCAAGAGG 180
Db 1889 TTGAGAGGACCTTTCCACAGCTTGAAGAGCAAGATGATCATAGGCTCTTCAAGAGG 1948
Qy 181 AATTGAATACTTAAGAACTGTAATCATGAGTACTCTTGAAGCTGTAGCAATATTTCTGA 240
Db 1949 AATTGAATACTTAAGAACTGTAATCATGAGTACTCTTGAAGCTGTAGCAATATTTCTGA 2008
Qy 241 CAGAGCAGCTTTTGAAGAGCTTGAAGAACTTACAGAGAGCCAGAGAGCTGCTCTG 300
Db 2009 CAGAGCAGCTTTTGAAGAGCTTGAAGAACTTACAGAGAGCCAGAGAGCTGCTCTG 2068
Qy 301 AGAGAGAGCCCAAGATGTACTGCTGTCTTGAAGAGAGCTGAGAGAGTCAATATCTG 360
Db 2069 AGAGAGAGCCCAAGATGTACTGCTGTCTTGAAGAGAGCTGAGAGAGTCAATATCTG 2128
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Db 2129 AGTGGAAAAATTGAACCTGCACTCCGCTGATGAGAGAAAAATGATGAGACCTTG 2188
Qy 421 AAAGACTCCAAGAACTTCAAGAGGCAAGAGATGAGTGAACCTCAAGCTGCGCAAGCTG 480
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Qy 481 AGGTGATCAAGGATCTGCGCAGCCCGTGGCGCATCTCTCATATGATCTTCTCAAGATC 540
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Qy 541 ACCTCGAAGAAAGTCAAGGACCTTTCAGAGAAATTCGCTGTGAAGAAAGTGAAGC 600
Db 2309 ACCTCGAAGAAAGTCAAGGACCTTTCAGAGAAATTCGCTGTGAAGAAAGTGAAGC 2368
Qy 601 ACCTCAATGACCTTGTGCTCCAGCTTACCACTTTGGGCAATTCAGCTCAACCTTAAC 660
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Qy 661 TCGACACTCTGGAAGACTGGAACCAACCAATGGAAGCTTCTGAGGTGCGCTGAGAGC 720
Db 2429 TCGACACTCTGGAAGACTGGAACCAACCAATGGAAGCTTCTGAGGTGCGCTGAGAGC 2488
Qy 721 GAGTCAGGAGCTGATGAGAGCCCAAGGACTTTGTGCGAGCATCTGAGCATCTTCTT 780
Db 2489 GAGTCAGGAGCTGATGAGAGCCCAAGGACTTTGTGCGAGCATCTGAGCATCTTCTT 2548
Qy 781 CCAAGTCTGTCCAGGGTCTCTGGAGAGAGCCATCTGCCAAAGAAAGTGCCTACTATA 840
Db 2549 CCAAGTCTGTCCAGGGTCTCTGGAGAGAGCCATCTGCCAAAGAAAGTGCCTACTATA 2608
Qy 841 TCAACAGAGAGCTCAACCACTTGTGGGACATCTCCCAAAATGACAGAGCTTACAGT 900
Db 2609 TCAACAGAGAGCTCAACCACTTGTGGGACATCTCCCAAAATGACAGAGCTTACAGT 2668
Qy 901 CTTAGCTGACCTGAATATGTCAGATTTCTAGCTTATGAGCTGCCATGAATCTCCGAA 960
Db 2669 CTTAGCTGACCTGAATATGTCAGATTTCTAGCTTATGAGCTGCCATGAATCTCCGAA 2728
Qy 961 GACTGCAGAAAGCCCTTGTGTGATCTCTTGAAGCTGTGACCTGTGACGTGATGCTTGG 1020
Db 2729 GACTGCAGAAAGCCCTTGTGTGATCTCTTGAAGCTGTGACCTGTGATGCTTGG 2788
Qy 1021 ACCAGCACAACCTCAAGCAAAATGACCGAGCCCATGATATCTGCAGATTATTAATGTT 1080
Db 2789 ACCAGCACAACCTCAAGCAAAATGACCGAGCCCATGATATCTGCAGATTATTAATGTT 2848
Qy 1081 TGACCACTATTATGACCGCTGAGAGCAAGACAACTATTTGGTCAAGTCCCTCTCT 1140
Db 2849 TGACCACTATTATGACCGCTGAGAGCAAGACAACTATTTGGTCAAGTCCCTCTCT 2908
Qy 1141 GCGTGATATGTCCTGAATCTGCTGCTGAATGTTATGATACGGAGCAAGAGAGGA 1200

Db 2309 GCGTGATATGTCTGTAAGTGGCTGTGAATGTTATATACGGGACGAAGGAGGA 2968
Qy 1201 TCCGTGTCCTCTTTTAAACCTGGCATCATTTCCCTGTAAAGACATTTGGAAGCA 1260
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Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGCAAGTTCAACAGATTTTGTACAGGCAAGC 1320
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Qy 1321 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTCGAAGCAGTTGGGTGAAGTTGCATCT 1380
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Qy 1381 TTGGGGGCAAGTAACATTTGAGCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATAAAGC 1440
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Qy 1441 CAGAGATGGAAGCGGCTCTTCTCTAGACTGAGATGAGACCGGACGTCATGTGT 1500
Db 3209 CAGAGATGGAAGCGGCTCTTCTCTAGACTGAGATGAGACCGGACGTCATGTGT 3268
Qy 1501 G 1501
Db 3269 G 3269

RESULT 7
US-09-949-016-2807
Sequence 2807, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq For Windows Version 4.0
SEQ ID NO 2807
LENGTH: 7070
TYPE: DNA
ORGANISM: Human
US-09-949-016-2807

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCAACATTAGTCCATTTTGAAGCCAGTTCTGACCACTGGAAGGCTTGCACCTTTCTC 60
Db 1769 TCAACATTAGTCCATTTTGAAGCCAGTTCTGACCACTGGAAGGCTTGCACCTTTCTC 1828
Qy 61 TGCAGGAACCTCTGCTGTGGCTGACAGCTGAAGATGATTAAGCCGGGAGGACCTA 120
Db 1829 TGCAGGAACCTCTGCTGTGGCTGACAGCTGAAGATGATTAAGCCGGGAGGACCTA 1888
Qy 121 TTGGAGGCACTTTTCCAGCAGTTCAAGAGCAAGATGATCATAGGCTTTCAAGAGG 180
Db 1889 TTGGAGGCACTTTTCCAGCAGTTCAAGAGCAAGATGATCATAGGCTTTCAAGAGG 1948
Qy 181 AATTGAAACCTTAAGAACCTGTATCATGATGATCTTTGAGACTGTACGATATTTCTGA 240
Db 1949 AATTGAAACCTTAAGAACCTGTATCATGATGATCTTTGAGACTGTACGATATTTCTGA 2008
Qy 241 CAGAGCAGCTTTTGAAGAGACTAGAAACTTACCAAGAGCCAGAGGCTGCTCTG 300

Db 2009 CAGAGCAGCTTTTGAAGAGCTAGAGAACTCTACAGAGCCAGAGAGCTGCTCTG 2068
Qy 301 AGGAGAGAGCCCAAAATGTCACTGGCTTCTACGAAGAGGCTGAGAGGCTCAATCTG 360
Db 2069 AGGAGAGAGCCCAAAATGTCACTGGCTTCTACGAAGAGGCTGAGAGGCTCAATCTG 2128
Qy 361 AGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTG 420
Db 2129 AGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTG 2188
Qy 421 AAAGATTCAGAACTTTCAAGAGGCCACGATGAGTGGACCTTCAAGCTGCGCAAGCTG 480
Db 2189 AAAGATTCAGAACTTTCAAGAGGCCACGATGAGTGGACCTTCAAGCTGCGCAAGCTG 2248
Qy 481 AGTGTATCAAGGATCTCTGGAGGCCGCTGGGCGATCTCTCATATGACTCTCTCAAGATC 540
Db 2249 AGTGTATCAAGGATCTCTGGAGGCCGCTGGGCGATCTCTCATATGACTCTCTCAAGATC 2308
Qy 541 ACCTGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCTTGAAGAGAACGTGAGCC 600
Db 2309 ACCTGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCTTGAAGAGAACGTGAGCC 2368
Qy 601 ACCTCAATGACCTTGTCTGCGCAAGCTTCACTTTGGGCAATTCAGCTTCAACCTATTAAC 660
Db 2369 ACCTCAATGACCTTGTCTGCGCAAGCTTCACTTTGGGCAATTCAGCTTCAACCTATTAAC 2428
Qy 661 TCAGACCTCTGGAAGACCTTGAACACAGATGGAAGCTTTCGACAGTGGCGCTGAGAGAC 720
Db 2429 TCAGACCTCTGGAAGACCTTGAACACAGATGGAAGCTTTCGACAGTGGCGCTGAGAGAC 2488
Qy 721 GAGTCAGGAGCTGATGAGAGCCCAAGGAGCTTTGGTCCAGATCTCAGACATTTCTTT 780
Db 2489 GAGTCAGGAGCTGATGAGAGCCCAAGGAGCTTTGGTCCAGATCTCAGACATTTCTTT 2548
Qy 781 CCAGCTCTGTCAGAGGTCCTCTGGAGAGAGGCAATCTGCAACAAAGTGCCTACTATA 840
Db 2549 CCAGCTCTGTCAGAGGTCCTCTGGAGAGAGGCAATCTGCAACAAAGTGCCTACTATA 2608
Qy 841 TCAACCAAGAGACTCAAAACAACTTGGTGGGACATCTCCAAAATGACAGAGCTTACCAAGT 900
Db 2609 TCAACCAAGAGACTCAAAACAACTTGGTGGGACATCTCCAAAATGACAGAGCTTACCAAGT 2668
Qy 901 CTTTAAAGCTGACCTGAATATGATGATGATCTCAGCTTATAGGACTGCAATGAACTCCGA 960
Db 2669 CTTTAAAGCTGACCTGAATATGATGATGATCTCAGCTTATAGGACTGCAATGAACTCCGA 2728
Qy 961 GACTGCAAGAGCCCTTTGCTTGGATCTCTTGAACCTGTCAGCTGCAATGATGATGATGATG 1020
Db 2729 GACTGCAAGAGCCCTTTGCTTGGATCTCTTGAACCTGTCAGCTGCAATGATGATGATGATG 2788
Qy 1021 ACCAGCAACACCTCAAGCAAAATGACAGCCCATGATATCTGCAATTTAATGTT 1080
Db 2789 ACCAGCAACACCTCAAGCAAAATGACAGCCCATGATATCTGCAATTTAATGTT 2848
Qy 1081 TGACCACTATTATGACCGGCTGAGAGCAAGCAAAATTTGATGATGATGATGATGATGATG 1140
Db 2849 TGACCACTATTATGACCGGCTGAGAGCAAGCAAAATTTGATGATGATGATGATGATGATG 2908
Qy 1141 GCGTGATATGTCTGTAACCTGCTGTGAATGTTTATGATACGGAGCAAGCAGGAGGA 1200
Db 2909 GCGTGATATGTCTGTAACCTGCTGTGAATGTTTATGATACGGAGCAAGCAGGAGGA 2968
Qy 1201 TCCGTGTCCTCTTTTAAACCTGGCATCATTTCCCTGTAAAGACATTTGGAAGCA 1260
Db 2969 TCCGTGTCCTCTTTTAAACCTGGCATCATTTCCCTGTAAAGACATTTGGAAGCA 3028
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGCAAGTTCAACAGATTTTGTGACAGGCAAGC 1320
Db 3029 AGTACAGATACCTTTTCAAGCAAGTGCAAGTTCAACAGATTTTGTGACAGGCAAGC 3088
Qy 1321 TGGGCTCTCTTCTGCATGATTTCTATCCAAATTCGAAGCAGTTGGGTGAAGTTGCATCT 1380

Db 3089 TGGGCTCTCTTCGATGATTTCTAATTCGAAGACAGTGGTGAAGTTGCATCCT 3148
Qy 1381 TTGGGGGAGTAATCATTTAGCGCAAGTGTCCGAGCTGTTCCATTTTGTCTAATATAGC 1440
Db 3149 TTGGGGGAGTAATCATTTAGCGCAAGTGTCCGAGCTGTTCCATTTTGTCTAATATAGC 3208
Qy 1441 CAGAGATGAAGCGGCGCTCTTCTAGATGATGAGACTGGAACCCAGTCCATGCTGT 1500
Db 3209 CAGAGATGAAGCGGCGCTCTTCTAGATGATGAGACTGGAACCCAGTCCATGCTGT 3268
Qy 1501 G 1501
Db 3269 G 3269

RESULT 8
US-09-949-016-2808
; Sequence 2808, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2808
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2808

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TCACATTAGTCCATTTTGAAGCAAGTCTGACCAATGGAAGCTTGTGACCTTTCTC 60
Db 1769 TCACATTAGTCCATTTTGAAGCAAGTCTGACCAATGGAAGCTTGTGACCTTTCTC 1828
Qy 61 TGCAGGAATCTGTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGAGCAGACTTA 120
Db 1829 TGCAGGAATCTGTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGAGCAGACTTA 1888
Qy 121 TTGGAGGAGCACTTCCACAGCTTGAAGAGCAAGATGTAATAGAGGCTTCAAGAGGG 180
Db 1889 TTGGAGGAGCACTTCCACAGCTTGAAGAGCAAGATGTAATAGAGGCTTCAAGAGGG 1948
Qy 181 AATTGAAACTTAAGAACTGTATCATGAGTACTTTGAGACTGTACGAAATTTCTGA 240
Db 1949 AATTGAAACTTAAGAACTGTATCATGAGTACTTTGAGACTGTACGAAATTTCTGA 2008
Qy 241 CAGAGGAGCTTTTGAAGAGCTTAAGAACTTAACAGAGCCCAAGAGCTGCTCTG 300
Db 2009 CAGAGGAGCTTTTGAAGAGCTTAAGAACTTAACAGAGCCCAAGAGCTGCTCTG 2068
Qy 301 AGGAGAGGCTTGAAGAGCTTAAGAACTTAACAGAGCCCAAGAGCTGCTCTG 360
Db 2069 AGGAGAGGCTTGAAGAGCTTAAGAACTTAACAGAGCCCAAGAGCTGCTCTG 2128
Qy 361 AGTGGGAAAAATTTGAACCTGCACTGCTGAGTGGCAGAGAAAAATAGATGAGACCTTG 420
Db 2129 AGTGGGAAAAATTTGAACCTGCACTGCTGAGTGGCAGAGAAAAATAGATGAGACCTTG 2188
Qy 421 AAAGATCTCAGGAATTCAGAGAGGCCAGATGAGCTGGAACCTCAAGCTGCGCAAGCTG 480

Db 2189 AAAGATCTCAGGAATTCAGAGAGGCCAGATGAGCTGGAACCTCAAGCTGCGCAAGCTG 2248
Qy 481 AGTATCAAGAGAACTTGGAGAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAGATC 540
Db 2249 AGTATCAAGAGAACTTGGAGAGCCCGTGGCGATCTCTCATTTGACTCTCTCCAGATC 2308
Qy 541 ACCTGAGAAAATCAAGCACTTGAAGAGAAATTTGGCCCTGGAAGAGAAAGCTGAGCC 600
Db 2309 ACCTGAGAAAATCAAGCACTTGAAGAGAAATTTGGCCCTGGAAGAGAAAGCTGAGCC 2368
Qy 601 ACCTCAATGACCTTGTCTGCGCACTTCACTTTGGGCAATTCAGCTTCAACCGATTAAC 660
Db 2369 ACCTCAATGACCTTGTCTGCGCACTTCACTTTGGGCAATTCAGCTTCAACCGATTAAC 2428
Qy 661 TCAGCACTTGGAGAGCCTGAACACAGATGGAAGCTTTCAGAGTGGCCGTGAGAGACC 720
Db 2429 TCAGCACTTGGAGAGCCTGAACACAGATGGAAGCTTTCAGAGTGGCCGTGAGAGACC 2488
Qy 721 GAGTCAGGAGCTGCAATGAAGCCCAAGGACCTTGGTCCAGATCTCAGCACTTTCTTT 780
Db 2489 GAGTCAGGAGCTGCAATGAAGCCCAAGGACCTTGGTCCAGATCTCAGCACTTTCTTT 2548
Qy 781 CCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAACAAAGTCCCTACTATA 840
Db 2549 CCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCGCAACAAAGTCCCTACTATA 2608
Qy 841 TCAACCAAGAGACTCAACAACTTGTGGGAGCCATCCAAATGACAGAGCTCTACAGT 900
Db 2609 TCAACCAAGAGACTCAACAACTTGTGGGAGCCATCCAAATGACAGAGCTCTACAGT 2668
Qy 901 CTTTAACTGACCTGATTAATGTCAGATTTCTCAGCTTAATGAGCTGCCATGAATCCGAA 960
Db 2669 CTTTAACTGACCTGATTAATGTCAGATTTCTCAGCTTAATGAGCTGCCATGAATCCGAA 2728
Qy 961 GACTGCAAGAGGCTTGTGCTGATCTCTGAGCCTGTCACTGATGATGATGCTTGG 1020
Db 2729 GACTGCAAGAGGCTTGTGCTGATCTCTGAGCCTGTCACTGATGATGATGCTTGG 2788
Qy 1021 ACCAGACAACTCTCAAGCAAAATGACAGCCCATGATATCTGCAAGATTTAATGTT 1080
Db 2789 ACCAGACAACTCTCAAGCAAAATGACAGCCCATGATATCTGCAAGATTTAATGTT 2848
Qy 1081 TGAACCACTTATATACCGCTGAGCAAGAGCACAAAATTTGGTCAACGCTCTCT 1140
Db 2849 TGAACCACTTATATACCGCTGAGCAAGAGCACAAAATTTGGTCAACGCTCTCT 2908
Qy 1141 GGTGATATGTGTCTGAATCTGCTGCTGAATGTTTATGATACGGAGCAAGGAGGA 1200
Db 2909 GGTGATATGTGTCTGAATCTGCTGCTGAATGTTTATGATACGGAGCAAGGAGGA 2968
Qy 1201 TCCGTGCTGCTTTTAAACTGGCAATCTTCCCTGTGTAAGCACATTTGGAAGCA 1260
Db 2969 TCCGTGCTGCTTTTAAACTGGCAATCTTCCCTGTGTAAGCACATTTGGAAGCA 3028
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAAATTTTGAACAGGCGAGC 1320
Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAAATTTTGAACAGGCGAGC 3088
Qy 1321 TGGGCTCTCTGAGATTTCTATCCAAATTCACAGACAGTTGGTGAAGTTGATCCT 1380
Db 3089 TGGGCTCTCTGAGATTTCTATCCAAATTCACAGACAGTTGGTGAAGTTGATCCT 3148
Qy 1381 TTGGGGGAGTAATCATTTAGCGCAAGTGTCCGAGCTGTTCCATTTTGTCTAATATAGC 1440
Db 3149 TTGGGGGAGTAATCATTTAGCGCAAGTGTCCGAGCTGTTCCATTTTGTCTAATATAGC 3208
Qy 1441 CAGAGATGAAGCGGCGCTCTTCTAGATGATGAGACTGGAACCCAGTCCATGCTGT 1500
Db 3209 CAGAGATGAAGCGGCGCTCTTCTAGATGATGAGACTGGAACCCAGTCCATGCTGT 3268
Qy 1501 G 1501

Db 3269 G 3269

RESULT 9

US-09-949-016-2809
; Sequence 2809, Application US/09949016
; Patent No. 6812339

GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: C1001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; PRIOR FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FASTSEQ for Windows Version 4.0

; SEQ ID NO 2809

; LENGTH: 7070

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-2809

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCATTTGGAGGCACTTCTGACCACTGAGAGGCTCTGACCTTTCTC 60
Db 1769 TCAACATTAGTCCATTTGGAGGCACTTCTGACCACTGAGAGGCTCTGACCTTTCTC 1828
QY 61 TGCAGGAACCTCTGCTGTGCTGCTACAGCTGAAAGATGATGATTAAGCCGCGAGCACCTA 120
Db 1829 TGCAGGAACCTCTGCTGTGCTGCTACAGCTGAAAGATGATGATTAAGCCGCGAGCACCTA 1888
QY 121 TTGAGGCGCACTTTCAGCAGCTTCAGAGCAGAGCAGATGATCAATGAGGCTTTCAAGAGCG 180
Db 1889 TTGAGGCGCACTTTCAGCAGCTTCAGAGCAGAGCAGATGATCAATGAGGCTTTCAAGAGCG 1948
QY 181 AATTGAAAACCTAAAGAACCTGTAATCATGATGATGATGATGATGATGATGATGATGATGAT 240
Db 1949 AATTGAAAACCTAAAGAACCTGTAATCATGATGATGATGATGATGATGATGATGATGATGAT 2008
QY 241 CAGAGCAGCCTTTGGAGGAGCTAGAGAACTCTACAGAGGCGCAGAGGCTGCTCTCG 300
Db 2009 CAGAGCAGCCTTTGGAGGAGCTAGAGAACTCTACAGAGGCGCAGAGGCTGCTCTCG 2068
QY 301 AGGAGAGAGCCAGAGATGCTACTCGGCTTCTAAGAGCAGGCTGAGAGGCTCAATATCTG 360
Db 2069 AGGAGAGAGCCAGAGATGCTACTCGGCTTCTAAGAGCAGGCTGAGAGGCTCAATATCTG 2128
QY 361 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGAGAAAAATTAGTGAACCTTTG 420
Db 2129 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGCGCAGAGAAAAATTAGTGAACCTTTG 2188
QY 421 AAAGACTCCAGGAACTTCAAGAGGCGCAGAGATGAGCTGAGCCTCAAGCTGCGCCAAAGCTG 480
Db 2189 AAAGACTCCAGGAACTTCAAGAGGCGCAGAGATGAGCTGAGCCTCAAGCTGCGCCAAAGCTG 2248
QY 481 AGGTGATCAAGGATCTTGGCAGGCGCTGCGGATCTCTCAATTGACTCTCTCAAGATC 540
Db 2249 AGGTGATCAAGGATCTTGGCAGGCGCTGCGGATCTCTCAATTGACTCTCTCAAGATC 2308
QY 541 ACCTGGAAGAAAGTCAAGGCACTTTCAGAGGAAATTCGCGCTTGAAGAGAAAGTGAAGCC 600
Db 2309 ACCTGGAAGAAAGTCAAGGCACTTTCAGAGGAAATTCGCGCTTGAAGAGAAAGTGAAGCC 2368
QY 601 AGGTGAATGACCTTCTGCGCAGCTTACCACTTTGGGATTCAGCTCTCACGTAATACC 660

Db 2369 ACCTGAATGACCTTCTGCGCAGCTTACCACTTTGGGATTCAGCTCTCACGTAATACC 2428
QY 661 TCAGACCTCTGGAAGACCTGAAACCAAGATGAGCTTCTGAGTGGCGCTGAGAGCC 720
Db 2429 TCAGACCTCTGGAAGACCTGAAACCAAGATGAGCTTCTGAGTGGCGCTGAGAGCC 2488
QY 721 GAGTCAGGACCTGATGATGAGCCCAAGAGGACTTTGGTCCAGCATCTTCAGACATTTCTTT 780
Db 2489 GAGTCAGGACCTGATGATGAGCCCAAGAGGACTTTGGTCCAGCATCTTCAGACATTTCTTT 2548
QY 781 CCAGCTCTGTCAGAGGCTCCTGGAGAGAGGCACTCTGCGCAAGAGTGCCTTACTATA 840
Db 2549 CCAGCTCTGTCAGAGGCTCCTGGAGAGAGGCACTCTGCGCAAGAGTGCCTTACTATA 2608
QY 841 TCAACCAAGACCTCAAAACCACTTGTGAGGACATCTCCAAATATGACAGAGCTTACCACT 900
Db 2609 TCAACCAAGACCTCAAAACCACTTGTGAGGACATCTCCAAATATGACAGAGCTTACCACT 2668
QY 901 CTTTAGCTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Db 2669 CTTTAGCTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2728
QY 961 GACTGCAAGAGGCGCTTGTCTTGGATCTCTTGAAGCTTCTGAGCTGCTGAGATGATGATGATGAT 1020
Db 2729 GACTGCAAGAGGCGCTTGTCTTGGATCTCTTGAAGCTTCTGAGCTGCTGAGATGATGATGATGAT 2788
QY 1021 ACCAGCACAACCTCAAGCAAAATGACAGCCCATGATGATGATGATGATGATGATGATGATGAT 1080
Db 2789 ACCAGCACAACCTCAAGCAAAATGACAGCCCATGATGATGATGATGATGATGATGATGATGAT 2848
QY 1081 TGACCACTATTATGACCGGCTGAGAGAGCAACAATTTGATGATGATGATGATGATGATGATGAT 1140
Db 2849 TGACCACTATTATGACCGGCTGAGAGAGCAACAATTTGATGATGATGATGATGATGATGATGAT 2908
QY 1141 GCGTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Db 2909 GCGTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2968
QY 1201 TCCGTGCTCTGCTTTTAAACCTGAGCATCTTCCCTGTGTAAGCACTTTTGAAGCA 1260
Db 2969 TCCGTGCTCTGCTTTTAAACCTGAGCATCTTCCCTGTGTAAGCACTTTTGAAGCA 3028
QY 1261 AGTACAGATACCTTTTCAAGAGAGGCAAGTCAACAGATTTTGTGACAGGCGAGCC 1320
Db 3029 AGTACAGATACCTTTTCAAGAGAGGCAAGTCAACAGATTTTGTGACAGGCGAGCC 3088
QY 1321 TGGGCTCTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
Db 3089 TGGGCTCTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3148
QY 1381 TTGGGGGAGTAACTTGAAGCAAGTGTCCGAGCTGCTTCAATTGCTTAATTAATGAC 1440
Db 3149 TTGGGGGAGTAACTTGAAGCAAGTGTCCGAGCTGCTTCAATTGCTTAATTAATGAC 3208
QY 1441 CAGAGATGAGAGGCGCTCTTCTTGAAGCTGATGAGCTGAGAACCCAGTCAATGAGGT 1500
Db 3209 CAGAGATGAGAGGCGCTCTTCTTGAAGCTGATGAGCTGAGAACCCAGTCAATGAGGT 3268
QY 1501 G 1501
Db 3269 G 3269

RESULT 10

US-09-949-016-2810
; Sequence 2810, Application US/09949016
; Patent No. 6812339

GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: C1001307

; CURRENT APPLICATION NUMBER: US/09/949, 016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2810
 ; LENGTH: 7070
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-2810

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCACATTTAGTCCCATTTTGAAGCCAGTTCTGACCACTGAAAGCGTCTGACCTTTCTC 60
 Db 1769 TCACATTTAGTCCCATTTTGAAGCCAGTTCTGACCACTGAAAGCGTCTGACCTTTCTC 1828
 QY 61 TGCAGGAATCTTGTGTGTGCTTACAGTGAAGATGATGAATTAAGCCGCGACGACCTTA 120
 Db 1829 TGCAGGAATCTTGTGTGTGCTTACAGTGAAGATGATGAATTAAGCCGCGACGACCTTA 1888
 QY 121 TTGAGGCGCATTTTCAGACAGTTCAAGAACAGATGATGATGAGGCTTCAAGAGG 180
 Db 1889 TTGAGGCGCATTTTCAGACAGTTCAAGAACAGATGATGATGAGGCTTCAAGAGG 1948
 QY 181 AATTGAACTAAGAACTGTATATGATGATGATGATGATGATGATGATGATGATGATGAT 240
 Db 1949 AATTGAACTAAGAACTGTATATGATGATGATGATGATGATGATGATGATGATGATGAT 2008
 QY 241 CAGAGAGCGCTTTGGAAGAGCTAGAGAACTTACCAAGAGCCGAGAGGCTGCTCTG 300
 Db 2009 CAGAGAGCGCTTTGGAAGAGCTAGAGAACTTACCAAGAGCCGAGAGGCTGCTCTG 2068
 QY 301 AGGAGAGAGCCCAAGATGCTCTGCTTCTTCAAGAGAGGCTGAGAGGCTCAATCTG 360
 Db 2069 AGGAGAGAGCCCAAGATGCTCTGCTTCTTCAAGAGAGGCTGAGAGGCTCAATCTG 2128
 QY 241 AGTGGGAAAAATTTGAACCTGCACTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 Db 2129 AGTGGGAAAAATTTGAACCTGCACTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2188
 QY 421 AAAAGCTTCAGGAATTTCAAGAGGCAAGATGATGATGATGATGATGATGATGATGATG 480
 Db 2189 AAAAGCTTCAGGAATTTCAAGAGGCAAGATGATGATGATGATGATGATGATGATGATG 2248
 QY 481 AGGTATCAAGAGGATCCCTGAGAGCCCTGAGAGGATCTCTCATTTGATCTCTTCAAGATC 540
 Db 2249 AGGTATCAAGAGGATCCCTGAGAGCCCTGAGAGGATCTCTCATTTGATCTCTTCAAGATC 2308
 QY 541 ACCTGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCCTTGAAGAGAAAGTGAAGC 600
 Db 2309 ACCTGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCCTTGAAGAGAAAGTGAAGC 2368
 QY 601 ACCTGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCCTTGAAGAGAAAGTGAAGC 660
 Db 2369 ACCTGAGAAAGTCAAGGCACTTCAAGAGAAATTTGGCCCTTGAAGAGAAAGTGAAGC 2428
 QY 661 TCAGCACTTGTGAAGACCTGAAACAGATGAAAGTCTTGCAGAGTGGCCCTGAGAGAC 720
 Db 2429 TCAGCACTTGTGAAGACCTGAAACAGATGAAAGTCTTGCAGAGTGGCCCTGAGAGAC 2488
 QY 721 GAGTCAGGAGAGCTGATGAAGCCCAAGAGGATTTGGTCCAGATCTCAGACCTTTCTT 780
 Db 2489 GAGTCAGGAGAGCTGATGAAGCCCAAGAGGATTTGGTCCAGATCTCAGACCTTTCTT 2548
 QY 781 CCAAGTGTGTCCAGAGGCTCTGGAGAGAGCCATCTGCGCAAAACAAAGTGCCCTACTATA 840

Db 2549 CCACGTCTGTCCAGAGGCTCTGGAGAGAGCCATCTGCGCAAAACAAAGTGCCCTACTATA 2608
 QY 841 TCACCAAGAGAGCTCAACCACTTGTGTGTGCTTACAGTGAAGATGATGATGATGATGATGAT 900
 Db 2609 TCACCAAGAGAGCTCAACCACTTGTGTGTGCTTACAGTGAAGATGATGATGATGATGATGAT 2668
 QY 901 CTTTGTGACCTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
 Db 2669 CTTTGTGACCTGAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2728
 QY 961 GACTGCAAGAGGCTCTTGTGTGTGATCTTGTGTGTGATCTGATGATGATGATGATGATGAT 1020
 Db 2729 GACTGCAAGAGGCTCTTGTGTGTGATCTTGTGTGTGATCTGATGATGATGATGATGATGAT 2788
 QY 1021 ACCAGCAACCTCAAGCAAAATGACCAAGCCCAATGATATCTGAGATTAATTAATTTGTT 1080
 Db 2789 ACCAGCAACCTCAAGCAAAATGACCAAGCCCAATGATATCTGAGATTAATTAATTTGTT 2848
 QY 1081 TGACCACTATTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
 Db 2849 TGACCACTATTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2908
 QY 1141 GCGTGTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
 Db 2909 GCGTGTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2968
 QY 1201 TCGGTGTCTGTCTTTTAAACCTGCAATCTTCTGTGTAAAGCAATTTGGAAGACA 1260
 Db 2969 TCGGTGTCTGTCTTTTAAACCTGCAATCTTCTGTGTAAAGCAATTTGGAAGACA 3028
 QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCGCAGGC 1320
 Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACCGCAGGC 3088
 QY 1321 TGGGCTCTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
 Db 3089 TGGGCTCTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3148
 QY 1381 TTGGGGGAGTAACTTGAAGCCCAAGTGTCCGAGCTGCTTCAATTTGTAATTAAGC 1440
 Db 3149 TTGGGGGAGTAACTTGAAGCCCAAGTGTCCGAGCTGCTTCAATTTGTAATTAAGC 3208
 QY 1441 CAGAGATCAAGAGGCGCTCTTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1500
 Db 3209 CAGAGATCAAGAGGCGCTCTTCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 3268
 QY 1501 G 1501
 Db 3269 G 3269

RESULT 11
 US-09-949-016-2811
 ; Sequence 2811, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: C1001307
 ; CURRENT APPLICATION NUMBER: US/09/949, 016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2811
 ; LENGTH: 7070

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; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2811

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Query Match	99.9%	Score 1499.4	DB 4	Length 7070
Best Local Similarity	99.9%	Pred. No. 0		
Matches 1500	Conservative	0	Mismatches 1	Indels 0
				Gaps 0

QY	1	TCAACATTAGTCCCATTTGGAGGCAAGTTCAGACAGTGGAGAGGTCCTGACCTTTCTC	60
Db	1769	TCAACATTAGGTCCCATTTGGAGGCAAGTTCAGACAGTGGAGAGGTCCTGACCTTTCTC	1828
QY	61	TGCAGGAACCTTCGTGTGTGGCTACAGCTGGAAGATGAATTAAGCCGGCAGGCACTTA	120
Db	1829	TGCAGGAACCTTCGTGTGTGGCTACAGCTGGAAGATGAATTAAGCCGGCAGGCACTTA	1888
QY	121	TTGGAGGCGACTTTCCAGCAGTTCAGAAAGCAAAAGATGTACATTAAGGCTTTCAAGAGGG	180
Db	1889	TTGGAGGCGACTTTCCAGCAGTTCAGAAAGCAAAAGATGTACATTAAGGCTTTCAAGAGGG	1948
QY	181	AATTGAAACCTTAAGAACCTGTATCAAGATACCTTTGAACTGTAGAAATATTTCTGA	240
Db	1949	AATTGAAACCTTAAGAACCTGTATCAAGATACCTTTGAACTGTAGAAATATTTCTGA	2008
QY	241	CAGAGCAGCCCTTTGGAGAGGACTAGAGAACTCTACAGAGCCCGCAGAGCTGCTCCTG	300
Db	2009	CAGAGCAGCCCTTTGGAGAGGACTAGAGAACTCTACAGAGCCCGCAGAGCTGCTCCTG	2068
QY	301	AGGAGAGAGCCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCATTAATCTG	360
Db	2069	AGGAGAGAGCCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCATTAATCTG	2128
QY	361	AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGG	420
Db	2129	AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGG	2188
QY	421	AAAGACTCCAGGAACCTTCAGAGAGCCAGAGTGAAGCTGAGCCTCAAGCTGGCCAAAGCTG	480
Db	2189	AAAGACTCCGGAACCTTCAGAGAGCCAGAGTGAAGCTGAGCCTCAAGCTGGGCCAAAGCTG	2248
QY	481	AGTGATTCAGAGGATCCTGGCAAGCCGCTGGGCGATCTCTCATTTGACTCTCCAAAGTC	540
Db	2249	AGTGATTCAGAGGATCCTGGCAAGCCGCTGGGCGATCTCTCATTTGACTCTCCAAAGATC	2308
QY	541	ACCCTGAGAAAGTCAGAGGCACTTCGAGGAGAAATTGGGCGCTGTGAAAGAGAACGAGAAC	600
Db	2309	ACCCTGAGAAAGTCAGAGGCACTTCGAGGAGAAATTGGGCGCTGTGAAAGAGAACGAGAAC	2368
QY	601	ACGTCAAATGACCTTGTCTGCGCAGGCTTACACTTTTGGGCAATTCAAGCTCTCAACGTTAAAC	660
Db	2369	ACGTCAAATGACCTTGTCTGCGCAGGCTTACACTTTTGGGCAATTCAAGCTCTCAACGTTAAAC	2428
QY	661	TCAGCACTCTGGAAGACTTGAACACACAGATGGAGCTTCTGCAAGTGGCCGTCGAGAAC	720
Db	2429	TCAGCACTCTGGAAGACTTGAACACACAGATGGAGCTTCTGCAAGTGGCCGTCGAGAAC	2488
QY	721	GAGTCAGGACGCTGATGAGGCCCAAGAGGACTTTTGGTCCAGCATCTCAAGCACTTTCTTT	780
Db	2489	GAGTCAGGACGCTGATGAGGCCCAAGAGGACTTTTGGTCCAGCATCTCAAGCACTTTCTTT	2548
QY	781	CCACGTCTGTCCAGAGGTCCTTGGAGAGAGCCATCTCGCCAAACAAATGGCCCTTACTATA	840
Db	2549	CCACGTCTGTCCAGAGGTCCTTGGAGAGAGCCATCTCGCCAAACAAATGGCCCTTACTATA	2608
QY	841	TCAACCAACGAACTTCAACCAACTTGTCTGGACCAATCCAAAAATGACAAAGCTCTTACAGT	900
Db	2609	TCAACCAACGAACTTCAACCAACTTGTCTGGACCAATCCAAAAATGACAAAGCTCTTACAGT	2668
QY	901	CTTTAGCTGACCTGAAATATGTACGAATCTCAGCTTATAGGACTGCCATGAAACTCCGAA	960
Db	2669	CTTTAGCTGACCTGAAATATGTACGAATCTCAGCTTATAGGACTGCCATGAAACTCCGAA	2728
QY	961	GACTGCAGAAAGCCCTTTGCTTGGATCTCTTGAAGCTGTCAAGCTGCATGTAGTGCCTTGG	1020

Db	2729	GACTGCGAAGAGGCCCTTGGCTTGATCTCTTGAGCCGTGTCAGCTGCATGTGATGCCCTGG	278
QY	1021	ACCGGCAAACTTCAGCAAAAATGACACGCCCATGATATCTCGCAGATTATTAATTGTT	1080
Db	2789	ACCGGCAAACTTCAGCAAAAATGACACGCCCATGATATCTCGCAGATTATTAATTGTT	2848
QY	1081	TGACCACTAATTATGACCGGCTGGAGCAAGACAACAAATTTTGTCACGTCCTCT	1140
Db	2849	TGACCACTAATTATGACCGGCTGGAGCAAGACAACAAATTTTGTCACGTCCTCT	2908
QY	1141	GCGTGATATGTGTCTGAACTGCGTCTGATGTATTATGATACGGACGAACAGGAGGA	1200
Db	2909	GCGTGATATGTGTCTGAACTGCGTCTGATGTATTATGATACGGAGCAACAGGAGGA	2968
QY	1201	TCCGTGTCTGTCTTTTAAAACTGGCATTCATTTCCCTGTCTAAGCACTTTGGAAAGCA	1260
Db	2969	TCCGTGTCTGTCTTTTAAAACTGGCATTCATTTCCCTGTCTAAGCACTTTGGAAAGCA	3028
QY	1261	AGTACAGATACCTTTTCAGCAAGTGGCAAGTTCACAGAGTTTGTGACACGACGAGC	1320
Db	3029	AGTACAGATACCTTTTCAGCAAGTGGCAAGTTCACAGAGTTTGTGACACGACGAGC	3088
QY	1321	TGGGCTTCCTTCGCGATGATTTCTATCCAAATTCACAGACAGTTGGGTGAAGTTCATCCT	1380
Db	3089	TGGGCTTCCTTCGCGATGATTTCTATCCAAATTCACAGACAGTTGGGTGAAGTTCATCCT	3148
QY	1381	TTGGGGGCGAGTAACATTGAGCGCAAGTGTCCGAGAGCTCTTCCAATTTGCTAATTAATAGC	1440
Db	3149	TTGGGGGCGAGTAACATTGAGCGCAAGTGTCCGAGAGCTCTTCCAATTTGCTAATTAATAGC	3208
QY	1441	CAGAGATCGAAGCGGCGCTCTTCTCTAGACTGATGAGACTGGAACCCCACTCATGTGT	1500
Db	3209	CAGAGATCGAAGCGGCGCTCTTCTCTAGACTGATGAGACTGGAACCCCACTCATGTGT	3268
QY	1501	G 1501	
Db	3269	G 3269	

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US-09-949-016-2812
RESULT 12
; Sequence 2812, Application US/09949016
; Patent No. 6812319
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2812
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	Query Match	Similarity	99.9%	Score	1499.4	DB	4	Length	7109
	Best Local	Similarity	99.9%	Pred.	No.	0			
	Matches	1500	Conservative	0	Mismatches	1	Indels	0	Gaps
Qy	1	TCAACATTAGTCCCATTTTGGAAAGCCAGTTCTGTACACAGTGGAAAGCGTCTGCACCTTTTC	60						
Db	1769	TCAACATTAGTCCCATTTTGGAAAGCCAGTTCTGTACACAGTGGAAAGCGTCTGCACCTTTTC	1828						

QY 61 TCAGAGAACTTGTGTGTGCTACAGCTGAAAGATGATGATTAAGCCGACGACCTTA 120
Db 1829 TGCAGAGAACTTGTGTGTGCTACAGCTGAAAGATGATGATTAAGCCGACGACCTTA 1888
QY 121 TTGGAGGCGACTTTCAGAGCTTCAAGACGAAACGATGTAATATAGGCGCTTCAAGAGG 180
Db 1889 TTGGAGGCGACTTTCAGAGCTTCAAGACGAAACGATGTAATATAGGCGCTTCAAGAGG 1948
QY 181 AATTGAAAATTAAAGAACTGTATCATCATGATCTCTTGAGACTGTATGCAATATTTCTGA 240
Db 1949 AATTGAAAATTAAAGAACTGTATCATCATGATCTCTTGAGACTGTATGCAATATTTCTGA 2008
QY 241 CAGAGAGCTTGTGGAAGACTAGAGAACTTACAGAGAGCCAGAGAGCTGCTCTTG 300
Db 2009 CAGAGAGCTTGTGGAAGACTAGAGAACTTACAGAGAGCCAGAGAGCTGCTCTTG 2068
QY 301 AGGAGAGAGCCAGAAATGTCACTCGGCTTCTAGGAAAGAGAGCTGAGAGCTCATATCTG 360
Db 2069 AGGAGAGAGCCAGAAATGTCACTCGGCTTCTAGGAAAGAGAGCTGAGAGCTCATATCTG 2128
QY 361 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGAGAGAAAAATAGATGAGACCTTG 420
Db 2129 AGTGGAAAAATTGAACCTGCACTCCGCTGACTGCGAGAGAAAAATAGATGAGACCTTG 2188
QY 421 AAAGACTCCAGAGAACTTCAAGAGGCCAGGATGAGCTGGAAGCTTCAAGCTGCGCAAGCTG 480
Db 2189 AAAGACTCCAGAGAACTTCAAGAGGCCAGGATGAGCTGGAAGCTTCAAGCTGCGCAAGCTG 2248
QY 481 AGGTGATCAAGGGATCTGTGAGAGCCGCTGAGGAGATCTCTCATGATCTCTCCAAAGATC 540
Db 2249 AGGTGATCAAGGGATCTGTGAGAGCCGCTGAGGAGATCTCTCATGATCTCTCCAAAGATC 2308
QY 541 ACCGTGAGAAAGTCAAGGCACTTTCAGAGAAATTCGCGCTTCAAGAGAACTGAGACC 600
Db 2309 ACCGTGAGAAAGTCAAGGCACTTTCAGAGAAATTCGCGCTTCAAGAGAACTGAGACC 2368
QY 601 ACCTGAAATGACCTGTGCGCAGCTTACCACTTTGGGATTCAGTCTTCAACGTTAAAC 660
Db 2369 ACCTGAAATGACCTGTGCGCAGCTTACCACTTTGGGATTCAGTCTTCAACGTTAAAC 2428
QY 661 TCAGAGCTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGGTGCGCTGAGAGACC 720
Db 2429 TCAGAGCTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGGTGCGCTGAGAGACC 2488
QY 721 GAGTACGAGAGCTGATGAGAGCCCAAGGACTTTGGTCCAGCATCTCAGACATTTCTTT 780
Db 2489 GAGTACGAGAGCTGATGAGAGCCCAAGGACTTTGGTCCAGCATCTCAGACATTTCTTT 2548
QY 781 CCACGCTGTCCAGGGTCCCTGAGAGAGAGCCATCTGCGCAAAAGAGTGGCCCTAATATA 840
Db 2549 CCACGCTGTCCAGGGTCCCTGAGAGAGAGCCATCTGCGCAAAAGAGTGGCCCTAATATA 2608
QY 841 TCACCAAGAGACTCAAAACAATTGCTGGAACAATCCCAAAATAGACAGAGCTTACCAAGT 900
Db 2609 TCACCAAGAGACTCAAAACAATTGCTGGAACAATCCCAAAATAGACAGAGCTTACCAAGT 2668
QY 901 CTTTAGCTGACCTGAATATATGATGATTCAGATTCATAGAGCTGCAATGAAATCCGAA 960
Db 2669 CTTTAGCTGACCTGAATATATGATGATTCAGATTCATAGAGCTGCAATGAAATCCGAA 2728
QY 961 GACTGACAGAGGCCCTTGTGCTTGGATCTCTTGAGAGCTGAGAGAGTGAAGTCCCTTG 1020
Db 2729 GACTGACAGAGGCCCTTGTGCTTGGATCTCTTGAGAGCTGAGAGAGTGAAGTCCCTTG 2788
QY 1021 ACCAGCAACCTTCAAGAAATATACAGAGCCAGATGATATCTTCAGATTAATATGTT 1080
Db 2789 ACCAGCAACCTTCAAGAAATATACAGAGCCAGATGATATCTTCAGATTAATATGTT 2848
QY 1081 TGACCACTATTATGACCGCTGAGAGAGGCAACAATTTGGTCAAGCTCCCTCTCT 1140
Db 2849 TGACCACTATTATGACCGCTGAGAGAGGCAACAATTTGGTCAAGCTCCCTCTCT 2908
QY 1141 GCGTGATATATGTCTGAACCTGCTGTAATGTTATGATACGGGCAACAGGGAGGA 1200

Db 2909 GCGTGATATATGTCTGAACCTGCTGTAATGTTATGATACGGGCAACAGGGAGGA 2968
QY 1201 TCCGTGTCTGTCTTTTAAACCTGCAATCATTTCCCTGTGTAAAGCACTTTGGAAGACA 1260
Db 2969 TCCGTGTCTGTCTTTTAAACCTGCAATCATTTCCCTGTGTAAAGCACTTTGGAAGACA 3028
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTACACGCGAGGC 1320
Db 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTACACGCGAGGC 3088
QY 1321 TGGGCTCTCTCTCATGATCTATCCAAATTCAGAGAGCTGGGAGAGTGGATCTCT 1380
Db 3089 TGGGCTCTCTCTCATGATCTATCCAAATTCAGAGAGCTGGGAGAGTGGATCTCT 3148
QY 1381 TTGGGGGAGATACATTTGAGGCAAGTGTCCGAGAGCTCTTCCAAATTTGCTAATATAGC 1440
Db 3149 TTGGGGGAGATACATTTGAGGCAAGTGTCCGAGAGCTCTTCCAAATTTGCTAATATAGC 3208
QY 1441 CAGAGATGGAAGGCGCCCTTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGCTGT 1500
Db 3209 CAGAGATGGAAGGCGCCCTTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGCTGT 3268
QY 1501 G 1501
Db 3269 G 3269

RESULT 13
US-09-949-016-2813
Sequence 2813, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTUR, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: PastSeq for Windows Version 4.0
SEQ ID NO 2813
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2813

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAACATTAAGTCCCATTTGGAAGCAGTTCGACCAAGTGAAGGCTGCACTTTCTC 60
Db 1769 TCAACATTAAGTCCCATTTGGAAGCAGTTCGACCAAGTGAAGGCTGCACTTTCTC 1828
QY 61 TGCAGAACTTGTGTGTGCTACAGCTGAAAGATGATGATTAAGCCGACGACCTTA 120
Db 1829 TGCAGAACTTGTGTGTGCTACAGCTGAAAGATGATGATTAAGCCGACGACCTTA 1888
QY 121 TTGGAGGCGACTTTCAGAGCTTCAAGACGAAACGATGTAATATAGGCGCTTCAAGAGG 180
Db 1889 TTGGAGGCGACTTTCAGAGCTTCAAGACGAAACGATGTAATATAGGCGCTTCAAGAGG 1948
QY 181 AATTGAAAATTAAAGAACTGTATCATCATGATCTCTTGAGACTGTATGCAATATTTCTGA 240
Db 1949 AATTGAAAATTAAAGAACTGTATCATCATGATCTCTTGAGACTGTATGCAATATTTCTGA 2008

241 CAGAGCAGCCTTTGGAGAGCTAGAGAACTCTACGAGAGCCGAGAGCTGCTCTG 300
2009 CAGAGCAGCCTTTGGAGAGCTAGAGAACTCTACGAGAGCCGAGAGCTGCTCTG 2068
301 AGGAGAGAGCCCAAGATGTCACTCGGCTTTCTACGAAAGCAGGCTGAGAGGTCAATCTG 360
2069 AGGAGAGAGCCCAAGATGTCACTCGGCTTTCTACGAAAGCAGGCTGAGAGGTCAATCTG 2128
361 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATATATAGAACCTTGT 420
2129 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATATATAGAACCTTGT 2188
421 AAAGACTCCAGAACTTCAAGAGCCAGATGAGCTGAACTCAAGCTGCGCCAAAGCTG 480
2189 AAAGACTCCAGAACTTCAAGAGCCAGATGAGCTGAACTCAAGCTGCGCCAAAGCTG 2248
481 AGGTGATCAAGGATCTCTGAGAGCCGCTGGGAGATCTCTCAATTGACTCTCTCAAGATC 540
2249 AGGTGATCAAGGATCTCTGAGAGCCGCTGGGAGATCTCTCAATTGACTCTCTCAAGATC 2308
541 ACCCTGAGAAAACTCAAGGACTTCAAGAGAAATTTGGCCCTCTGAAAGAAAGTCAAGCC 600
2309 ACCCTGAGAAAACTCAAGGACTTCAAGAGAAATTTGGCCCTCTGAAAGAAAGTCAAGCC 2368
601 AGCTCAATGACCTTGTGCTGCGCAGCTTACCACTTTGGGAGATTCAGCTCTCAGCGTAAAC 660
2369 AGCTCAATGACCTTGTGCTGCGCAGCTTACCACTTTGGGAGATTCAGCTCTCAGCGTAAAC 2428
661 TCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGGTGCGCTGAGAAC 720
2429 TCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGGTGCGCTGAGAAC 2488
721 GAGTCAAGGAGCTGATGAGAGCCCAAGGACTTTGGTTCAGCATCTCAGCACTTTCTT 780
2489 GAGTCAAGGAGCTGATGAGAGCCCAAGGACTTTGGTTCAGCATCTCAGCACTTTCTT 2548
781 CCAGCTCTGTCCAGGAGCTCTGGAGAGAGCCATCTGCGCAAAACAAAGTGCCTTACTA 840
2549 CCAGCTCTGTCCAGGAGCTCTGGAGAGAGCCATCTGCGCAAAACAAAGTGCCTTACTA 2608
841 TCAACCAAGAGACTCAAAACAACTTGTGAGGACATCCCAAAATGACAGAGCTTACAGT 900
2609 TCAACCAAGAGACTCAAAACAACTTGTGAGGACATCCCAAAATGACAGAGCTTACAGT 2668
901 CTTTACGCTGACCTGATATATGTCAATTTCTCAGCTTATAGAGCTGCCATGAACTCCGA 960
2669 CTTTACGCTGACCTGATATATGTCAATTTCTCAGCTTATAGAGCTGCCATGAACTCCGA 2728
961 GACTGAGAGAGGCTTGTGCTTGTGATCTTGAAGCTGTGAGCTGATGATGCTTGG 1020
2729 GACTGAGAGAGGCTTGTGCTTGTGATCTTGAAGCTGTGAGCTGATGATGCTTGG 2788
1021 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCTCTGAGATTTATTAATTTG 1080
2789 ACCAGCAACCTCAAGCAAAATGACAGCCCATGATATCTCTGAGATTTATTAATTTG 2848
1081 TGACCACTATTTATGACCGCTGAGCAAGAGCAACAATTTGCTCAAGCTCTCTCT 1140
2849 TGACCACTATTTATGACCGCTGAGCAAGAGCAACAATTTGCTCAAGCTCTCTCT 2908
1141 GCGTGGATATGATGCTGAAGCTGCTGAATGTTATGATACGGGAGAAACAGGAGGA 1200
2909 GCGTGGATATGATGCTGAAGCTGCTGAATGTTATGATACGGGAGAAACAGGAGGA 2968
1201 TCCGTGCTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGACATTTGGAAGA 1260
2969 TCCGTGCTCTGCTTTTAAAACTGGCATCATTTCCCTGTGTAAGACATTTGGAAGA 3028
1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGACAGCGCAGCC 1320
3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGACAGCGCAGCC 3088
1321 TGGGCTCTCTTCTGATGATTTCTATCAAAATTCGAAGACAGTGGGTGAAGTTGATCT 1380

DB 3089 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCGAAGACAGTGGGTGAAGTTGATCTCT 3148
QY 1381 TTGGGGGAGATTAATGAGCAAGTGTCCGAGACTGCTTCCATTTTGCTAATAATTAAGC 1440
DB 3149 TTGGGGGAGATTAATGAGCAAGTGTCCGAGACTGCTTCCATTTTGCTAATAATTAAGC 3208
QY 1441 CAGAGATCAAGCGGCTCTTCTTACAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1500
DB 3209 CAGAGATCAAGCGGCTCTTCTTACAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 3268
QY 1501 G 1501
DB 3269 G 3269

RESULT 14
US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2814

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACAGTGAAGCGTCTGCACTTTCTC 60
DB 1769 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACAGTGAAGCGTCTGCACTTTCTC 1828
QY 61 TGCAGGAACCTCTGTGAGCTAAGCTGAAGATGATTAAGTGAAGCGGAGGACCTA 120
DB 1829 TGCAGGAACCTCTGTGAGCTAAGCTGAAGATGATTAAGTGAAGCGGAGGACCTA 1888
QY 121 TTGAGAGGCACTTTCAGCAGTTCAGAAAGCAAGTGTACATAGGCGCTTCAAGAGG 180
DB 1889 TTGAGAGGCACTTTCAGCAGTTCAGAAAGCAAGTGTACATAGGCGCTTCAAGAGG 1948
QY 181 AATTGAAAACCTTAAGAACCTGTATATCATGACTCTTTGAGACTGTACGAATATTTCTGA 240
DB 1949 AATTGAAAACCTTAAGAACCTGTATATCATGACTCTTTGAGACTGTACGAATATTTCTGA 2008
QY 241 CAGAGCAGCCTTTGGAAGAGTGAAGAACTCTACAGAGCCAGAGAGCTGCTCTCTG 300
DB 2009 CAGAGCAGCCTTTGGAAGAGTGAAGAACTCTACAGAGCCAGAGAGCTGCTCTCTG 2068
QY 301 AGGAGAGAGCCCAAGATGTCACTCGGCTTTCTACGAAAGCAGGCTGAGAGGTCAATCTG 360
DB 2069 AGGAGAGAGCCCAAGATGTCACTCGGCTTTCTACGAAAGCAGGCTGAGAGGTCAATCTG 2128
QY 361 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATATATAGAACCTTGT 420
DB 2129 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATATATAGAACCTTGT 2188

QY 421 AAAAGCTCAGAACTTCAAGAGCCACGAGATGAGCTGAGCCTCAAGCTGGCCAGCTG 480
DB 2189 AAAAGCTCAGAACTTCAAGAGCCACGAGATGAGCTGAGCCTCAAGCTGGCCAGCTG 2248
QY 481 AGGTATCAAGGGATCCCTGGAGCCCGGCGGATCTCTCATTTGACTCTCTCCAGATC 540
DB 2249 AGGTATCAAGGGATCCCTGGAGCCCGGCGGATCTCTCATTTGACTCTCTCCAGATC 2308
QY 541 ACTCGAAGAAATCAGGACCTTCGAGAGAAATTTGGCCCTTGAAGAGAAACCTGAGCC 600
DB 2309 ACTCGAAGAAATCAGGACCTTCGAGAGAAATTTGGCCCTTGAAGAGAAACCTGAGCC 2368
QY 601 AGCTAAGACCTTCTCTGCGCACTTACCACTTTGGGCATTACGCTCTCACTGATACC 660
DB 2369 AGCTAAGACCTTCTCTGCGCACTTACCACTTTGGGCATTACGCTCTCACTGATACC 2428
QY 661 TCAGCACTCTGAGAGACCTGAAACACAGATGAGAACTTCGAGAGGCGCGTGAAGACC 720
DB 2429 TCAGCACTCTGAGAGACCTGAAACACAGATGAGAACTTCGAGAGGCGCGTGAAGACC 2488
QY 721 GAGTCAGGCACTGCTGATGAGAGCCCAAGGACCTTTGGTCCAGCATCTCAAGCACTTTCTT 780
DB 2489 GAGTCAGGCACTGCTGATGAGAGCCCAAGGACCTTTGGTCCAGCATCTCAAGCACTTTCTT 2548
QY 781 CCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCACTTCGCCAAACAAAGTCCCTACTATA 840
DB 2549 CCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCACTTCGCCAAACAAAGTCCCTACTATA 2608
QY 841 TCACACCGAGACTCAACCAACTTGTGGAGCCATCCCAAAATGACAGAGCTCTACAGT 900
DB 2609 TCACACCGAGACTCAACCAACTTGTGGAGCCATCCCAAAATGACAGAGCTCTACAGT 960
QY 901 CTTAGCTGCTCGAATTAATGATGATTCCTCAGCTTATGAGCTGCGATGAAACTCCGAA 960
DB 2669 CTTAGCTGCTCGAATTAATGATGATTCCTCAGCTTATGAGCTGCGATGAAACTCCGAA 2728
QY 961 GACTGCAAGAGCCCTTTGCTTGAATCTCTGAGCTGCACTGCACTGATGATGCTTGG 1020
DB 2729 GACTGCAAGAGCCCTTTGCTTGAATCTCTGAGCTGCACTGCACTGATGATGCTTGG 2788
QY 1021 ACCAGACAACCTCAAGCAAAATGACACGCCATGATATCTCGAGATTAATATGTT 1080
DB 2789 ACCAGACAACCTCAAGCAAAATGACACGCCATGATATCTCGAGATTAATATGTT 2848
QY 1081 TGAACCACTATTATGACCGCTGAGCAAGAGCAACAATTTGGTCAACGCTCCCTCT 1140
DB 2849 TGAACCACTATTATGACCGCTGAGCAAGAGCAACAATTTGGTCAACGCTCCCTCT 2908
QY 1141 GGTGGATATGATGCTGAACTGCTGAAATGTTTATGATACGGAGCAAGAGAGAGA 1200
DB 2909 GGTGGATATGATGCTGAACTGCTGAAATGTTTATGATACGGAGCAAGAGAGAGA 2968
QY 1201 TCCGTGCTCTGCTTTAAACCTGGCATCTTCCCTGTGTAAGCACTTTGGAAGACA 1260
DB 2969 TCCGTGCTCTGCTTTAAACCTGGCATCTTCCCTGTGTAAGCACTTTGGAAGACA 3028
QY 1281 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGCAAGCGAGCG 1320
DB 3029 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGCAAGCGAGCG 3088
QY 1321 TGGGCTCTCTCTGATGATCTATTCGAATTCGAACAGTGGGTGAAGTTGCACTCT 1380
DB 3089 TGGGCTCTCTCTGATGATCTATTCGAATTCGAACAGTGGGTGAAGTTGCACTCT 3148
QY 1381 TTTGGGGGCACTTAACATTTAGGCAAGTGTCCGAGAGCTCTTCAATTTGCTAATATAC 1440
DB 3149 TTTGGGGGCACTTAACATTTAGGCAAGTGTCCGAGAGCTCTTCAATTTGCTAATATAC 3208
QY 1441 CAGAGATCGAAGGGCCCTCTCTCTAGACTGATGAGACTGGAACCCCAAGTGTGT 1500
DB 3209 CAGAGATCGAAGGGCCCTCTCTCTAGACTGATGAGACTGGAACCCCAAGTGTGT 3268
QY 1501 G 1501

DB 3269 G 3269

RESULT 15
US-09-949-016-2815
Sequence 2815, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2815
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2815

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Job time : 268.233 secs

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OM nucleic - nucleic search, using bw model

Run on: March 2, 2005, 04:16:40 ; Search time 261.233 Seconds
(without alignments)
9401.765 Million cell updates/sec

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Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 1202784 seqs, 81813359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum March 0%
Maximum March 10%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1499.4	99.9	5627	4	US-09-949-016-2832
4	1499.4	99.9	7070	4	US-09-949-016-2804
5	1499.4	99.9	7070	4	US-09-949-016-2805
6	1499.4	99.9	7070	4	US-09-949-016-2806
7	1499.4	99.9	7070	4	US-09-949-016-2807
8	1499.4	99.9	7070	4	US-09-949-016-2808
9	1499.4	99.9	7070	4	US-09-949-016-2809
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28	603.6	40.2	6045	4	US-09-091-501B-7	Sequence 7, Appli
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31	546.8	36.4	3499	4	US-09-949-016-276	Sequence 276, App
32	537.6	35.8	3915	4	US-09-976-594-93	Sequence 93, Appl
33	516	34.4	1571	4	US-09-949-016-2821	Sequence 2821, A
34	516	34.4	4556	4	US-09-949-016-2826	Sequence 2826, Ap
35	516	34.4	4556	4	US-09-949-016-2827	Sequence 2827, Ap
36	516	34.4	4556	4	US-09-949-016-2828	Sequence 2828, Ap
37	516	34.4	4556	4	US-09-949-016-2829	Sequence 2829, Ap
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ALIGNMENTS

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; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
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Beat Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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3 3134 CTCACAGATGTTATGACAACTGATGAAAAAGCCAAATACTCGATCCCTGG 3193
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; Sequence 2831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2831
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; ORGANISM: Human
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Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/231,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2832
; LENGTH: 5627
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2832
Query Match 99.9%; Score 1499.4; DB 4; Length 5627;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CTCACAGAGATGTTTATCAACCTGATGAAACAGCCAAATATCTGAGATCCCTGG 60
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QY 121 GTGAACCTTGGAAAAAGTCTTCAACATTTAGTCCATTTGAAAGCCAGTTCTGACAG 180
Db 234 GTGAACCTTGGAAAAAGTCTTCAACATTTAGTCCATTTGAAAGCCAGTTCTGACAG 293
QY 181 GGAAGCGTGCACCTTCTGCAAGAACTTGGTGGCTGACGTTGAAAGTATGATG 240
Db 294 GGAAGCGTGCACCTTCTGCAAGAACTTGGTGGCTGACGTTGAAAGTATGATGATG 353
QY 241 AATTAGCCGCGCAGGACCTATTTGAGGCGACTTTCAGACGTTTCAAGAGCAAGATG 300
Db 354 AATTAGCCGCGCAGGACCTATTTGAGGCGACTTTCAGACGTTTCAAGAGCAAGATG 413
QY 301 TACATGAGGCTTCAAGAGGAAATTTGAAACTTAAGAACTGTATATCATGATCTTGG 360
Db 414 TACATGAGGCTTCAAGAGGAAATTTGAAACTTAAGAACTGTATATCATGATCTTGG 473
QY 361 AGACTGTACGAATATTTCTGACAGAGACCTTGGAAAGCTGAGAACTCTACAGAG 420
Db 474 AGACTGTACGAATATTTCTGACAGAGACCTTGGAAAGCTGAGAACTCTACAGAG 533
QY 421 AGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCATGCTGCTTCAAGAAAGC 480
Db 534 AGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCATGCTGCTTCAAGAAAGC 593
QY 481 AGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACTTCACTCCGCTGACTGGCAGA 540
Db 594 AGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACTTCACTCCGCTGACTGGCAGA 653
QY 541 GAAAAATAGATGAGACCTTGAAGACCTTCAAGAGAACTTCAAGAGGCCAGATGAGCTGG 600
Db 654 GAAAAATAGATGAGACCTTGAAGACCTTCAAGAGAACTTCAAGAGGCCAGATGAGCTGG 713
QY 601 ACCTCAAGCTGCGCAAGCTGAGTGAATCAAGAGATCTGCGAGCCCTGGGCGATCTCC 660

Db 714 ACCTGAGCTGCGCAAGCTGATGATCAAGGATCTGCGAGCCCTGGCGATCTCC 773
 Qy 661 TCATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGACCTTGGAGAAATTTGGCC 720
 Db 774 TCATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGACCTTGGAGAAATTTGGCC 833
 Qy 721 CTCTGAAAGAGACGTGAGCCAGCTCAATGACCTTGGCCAGCTTACCACTTTGGGCA 780
 Db 834 CTCTGAAAGAGACGTGAGCCAGCTCAATGACCTTGGCCAGCTTACCACTTTGGGCA 893
 Qy 781 TTGAGCTCTACCCGATTAACCTCGACACTTGGAGAACTGTAACCAAGATGGAAGCTTC 840
 Db 894 TTGAGCTCTACCCGATTAACCTCGACACTTGGAGAACTGTAACCAAGATGGAAGCTTC 953
 Qy 841 TGCAGGTGCGGTGAGGACCGAGTCAAGGACAGTGCATGAAAGCCCAAGGACCTTGGTC 900
 Db 954 TGCAGGTGCGGTGAGGACCGAGTCAAGGACAGTGCATGAAAGCCCAAGGACCTTGGTC 1013
 Qy 901 CAGCATCTGAGCACTTTCTTTCACAGTCTGTCAGAGGTCCTGGGAGAGACCATCTGCG 960
 Db 1014 CAGCATCTGAGCACTTTCTTTCACAGTCTGTCAGAGGTCCTGGGAGAGACCATCTGCG 1073
 Qy 961 CAACAAAGTGCCTCACTATTAACCAAGACCTCAACAACTTGGTGGAGCCATCTCCA 1020
 Db 1074 CAACAAAGTGCCTCACTATTAACCAAGACCTCAACAACTTGGTGGAGCCATCTCCA 1133
 Qy 1021 AAATGACAGAGCTCACTCACTTATAGCTGACCTGATTAATGTCAGATTCTCAGCTTATA 1080
 Db 1134 AAATGACAGAGCTCACTCACTTATAGCTGACCTGATTAATGTCAGATTCTCAGCTTATA 1193
 Qy 1081 GGAATGACAGAGCTCACTCACTTATAGCTGACCTGATTAATGTCAGATTCTCAGCTTATA 1140
 Db 1194 GGAATGACAGAGCTCACTCACTTATAGCTGACCTGATTAATGTCAGATTCTCAGCTTATA 1253
 Qy 1141 CAGCTGACATGATGAGCTTTCAGACCAAGCACTCAACAACTTGGTGGAGCCATCTCCA 1200
 Db 1254 CAGCTGACATGATGAGCTTTCAGACCAAGCACTCAACAACTTGGTGGAGCCATCTCCA 1313
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 Db 1314 TCCTGACATGATGAGCTTTCAGACCAAGCACTTATGACCGCTGGAGCAAGCAACA 1373
 Qy 1261 ATTGCTGACATGAGCTTTCAGACCAAGCACTTATGACCGCTGGAGCAAGCAACA 1320
 Db 1374 ATTGCTGACATGAGCTTTCAGACCAAGCACTTATGACCGCTGGAGCAAGCAACA 1433
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 Db 1434 ATACGGGACGAAAGGAGATCGGTGCTCTTTTAAACCTGGCATCTATTCCTGCTGT 1493
 Qy 1381 GTAAAGCACTTTTGAAGACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAG 1440
 Db 1494 GTAAAGCACTTTTGAAGACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAG 1553
 Qy 1441 GATTTTGACACGAGCGAGGCTGGGCTCTCTTTCGATGATTCTAATCCAAATTCAGAAC 1500
 Db 1554 GATTTTGACACGAGCGAGGCTGGGCTCTCTTTCGATGATTCTAATCCAAATTCAGAAC 1613
 Qy 1501 A 1501
 Db 1614 A 1614

RESULT 4
 US-09-949-016-2804
 ; Sequence 2804, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; CURRENT APPLICATION NUMBER: US/09/949, 016

; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2804
 ; LENGTH: 7070
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-016-2804
 Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 CTCACAGAGTGTATCAACAACCTGATGAAAAAGCCAAAAATCTGAGATCCCTGG 60
 Db 1628 CTCACAGAGTGTATCAACAACCTGATGAAAAAGCCAAAAATCTGAGATCCCTGG 1687
 Qy 61 AAGGTCGATGATGACGCTCTGTACAAAGACGTTGATTAACATGACCTCAAGTGA 120
 Db 1688 AAGGTCGATGATGACGCTCTGTACAAAGACGTTGATTAACATGACCTCAAGTGA 1747
 Qy 121 GTGAACTTCGAAAAAAGTCTCAACATTAAGTCCCACTTTGGAAGCCAGTTCAGCAGT 180
 Db 1748 GTGAACTTCGAAAAAAGTCTCAACATTAAGTCCCACTTTGGAAGCCAGTTCAGCAGT 1807
 Qy 181 GGAAGCGCTGCACTTTCTCTGACAGAACTTCTGATGAGCTTACAGCTGAAGATGATG 240
 Db 1808 GGAAGCGCTGCACTTTCTCTGACAGAACTTCTGATGAGCTTACAGCTGAAGATGATG 1867
 Qy 241 AATTAAAGCCGAGGACCTTATTTGAGGCGCATTTTCCAGAGTTCAAGACAGACGATG 300
 Db 1868 AATTAAAGCCGAGGACCTTATTTGAGGCGCATTTTCCAGAGTTCAAGACAGACGATG 1927
 Qy 301 TACATAGGCGCTTCAAGAGGGAATTGAAACCTAAGAACCTGATATCATAGTACTCTTG 360
 Db 1928 TACATAGGCGCTTCAAGAGGGAATTGAAACCTAAGAACCTGATATCATAGTACTCTTG 1987
 Qy 361 AGACTGACGATATTTCTGACAGAGAGCTTTGGAAGGACTGAGAAACTTACACAG 420
 Db 1988 AGACTGACGATATTTCTGACAGAGAGCTTTGGAAGGACTGAGAAACTTACACAG 2047
 Qy 421 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGCTCACTCGCTTCAAGAAAGC 480
 Db 2048 AGCCCAAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGCTCACTCGCTTCAAGAAAGC 2107
 Qy 481 AGGCTGAGAGGTCATPACTGATGAGGAAAAAATTGAACCTGCACTCGCTGAGCAG 540
 Db 2108 AGGCTGAGAGGTCATPACTGATGAGGAAAAAATTGAACCTGCACTCGCTGAGCAG 2167
 Qy 541 GAAAAATAGATGAGACCTTGAAGAAGCTCCAGGACCTTCAAGAGGCGCAGATGAGCTGG 600
 Db 2168 GAAAAATAGATGAGACCTTGAAGAAGCTCCAGGACCTTCAAGAGGCGCAGATGAGCTGG 2227
 Qy 601 AACTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCC 660
 Db 2228 AACTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCTGGCAGCCCGTGGCGATCTCC 2287
 Qy 661 TCATTGACTCTCTCCAAAGATCACTGAGAAAGTCAAGGACCTTGAAGGAAATTTGGCC 720
 Db 2288 TCATTGACTCTCTCCAAAGATCACTGAGAAAGTCAAGGACCTTGAAGGAAATTTGGCC 2347
 Qy 721 CTCTGAAAGAGACGTGAGCCAGCTCAATGACCTTGGCCAGCTTACCACTTTGGGCA 780
 Db 2348 CTCTGAAAGAGACGTGAGCCAGCTCAATGACCTTGGCCAGCTTACCACTTTGGGCA 2407
 Qy 781 TTGAGCTTCAACCGTATTAACCTGAGCACTTGGAGACCTGAAACAGATGGAAGCTTC 840

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Db 2408 TTCAGCTCTACCCGTATTAACCTCAGACACTTGGAAAGCCTGAAACCAAGATGGAAGCTTC 2467
Qy 841 TGCAGGTGCGCGTGCAGGACCGAGTCAGGACAGCTGATGAAGCCACAGGAGCTTTGGTC 900
Db 2468 TGCAGGTGCGCGTGCAGGACCGAGTCAGGACAGCTGATGAAGCCACAGGAGCTTTGGTC 2527
Qy 901 CAGCATCTCAGACATTTCTTTTCCAGCTGTCTCAGAGGTCCCTGGAGAGAGAGCCATCTGC 960
Db 2528 CAGCATCTCAGACATTTCTTTTCCAGCTGTCTCAGAGGTCCCTGGAGAGAGCCATCTGC 2587
Qy 961 CAAACAAAGTCCCTCTACTATATCAACACAGAGATCTAAACAACTTCTGGAGCATCTCCA 1020
Db 2588 CAAACAAAGTCCCTCTACTATATCAACACAGAGATCTAAACAACTTCTGGAGCATCTCCA 2647
Qy 1021 AAATGACAGAGCTCAGAGTCTTATAGCTGACCTGAATATGTGATTTCTAGCTTATA 1080
Db 2648 AAATGACAGAGCTCAGAGTCTTATAGCTGACCTGAATATGTGATTTCTAGCTTATA 2707
Qy 1081 GGAAGCTGCTGACCTTCTCTGAGAGACCTGAGAAAGCCCTTGGCTTGGATCTTTGAGCCTGT 1140
Db 2708 GGAAGCTGCTGACCTTCTCTGAGAGACCTGAGAAAGCCCTTGGCTTGGATCTTTGAGCCTGT 2767
Qy 1141 CAGCTGCACTGATGCTCTTGGACACGACCAACCTTCAAGCAAAATGACCAAGCCATGATTA 1200
Db 2768 CAGCTGCACTGATGCTCTTGGACACGACCAACCTTCAAGCAAAATGACCAAGCCATGATTA 2827
Qy 1201 TCCCTGACATTAATTAATGTTTGAACCACTATTTATGACCGCTGGAGCAAGACCAACA 1260
Db 2828 TCCCTGACATTAATTAATGTTTGAACCACTATTTATGACCGCTGGAGCAAGACCAACA 2887
Qy 1261 ATTTGCTCAACGCTCTCTCTGCTGATGATGTCGTAAGCTGCTGCTGATGTTTATG 1320
Db 2888 ATTTGCTCAACGCTCTCTCTGCTGATGATGTCGTAAGCTGCTGCTGATGTTTATG 2947
Qy 1321 ATACGGAGCAAGACGAGAGATCCGTGCTGCTTTTAAACCTGGCATCTTCCCTGT 1380
Db 2948 ATACGGAGCAAGACGAGAGATCCGTGCTGCTTTTAAACCTGGCATCTTCCCTGT 3007
Qy 1381 GTAAAGCACTTTGGAAGCAAGTACAGATACCTTTGAAGCAATGGCAAGTTCAAG 1440
Db 3008 GTAAAGCACTTTGGAAGCAAGTACAGATACCTTTGAAGCAATGGCAAGTTCAAG 3067
Qy 1441 GATTTCGACGACGAGGAGGCTCTCTCTGATGATTTTCAAAATTCAGAAC 1500
Db 3068 GATTTCGACGACGAGGAGGCTCTCTCTGATGATTTTCAAAATTCAGAAC 3127
Qy 1501 A 1501
Db 3128 A 3128

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RESULT 5
US-09-949-016-2805
; Sequence 2805, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT FILING DATE: US/09/949,016
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 2805
; LENGTH: 7070
; TYPE: DNA

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; ORGANISM: Human
US-09-949-016-2805
Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Beet Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CTCACACAGATGTTTATCAACAACCTGATGAAAAAGCCAAATAATCTGAGATCTCTG 60
Db 1628 CTCACACAGATGTTTATCAACAACCTGATGAAAAAGCCAAATAATCTGAGATCTCTG 1687
Qy 61 AAGGTTCCGATGATGACGCTCTGTTACAAAGACGTTGGATTAACATGAACTTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGACGCTCTGTTACAAAGACGTTGGATTAACATGAACTTCAAGTGA 1747
Qy 121 GTGAACCTCGGAAAAAGCTCTCAACATTAAGTCCATTGGAAGCCAGTCTGACCAAGT 180
Db 1748 GTGAACCTCGGAAAAAGCTCTCAACATTAAGTCCATTGGAAGCCAGTCTGACCAAGT 1807
Qy 181 GGAAGCTGCTGACCTTCTCTGAGAGAACTTCTGATGCTGCTACAGCTGAAAGATGATG 240
Db 1808 GGAAGCTGCTGACCTTCTCTGAGAGAACTTCTGATGCTGCTACAGCTGAAAGATGATG 1867
Qy 241 AATTAAAGCCGACAGGACCTAATGGAAGCACTTCCAGAGTTTCAAGAGCAAGCATG 300
Db 1868 AATTAAAGCCGACAGGACCTAATGGAAGCACTTCCAGAGTTTCAAGAGCAAGCATG 1927
Qy 301 TACATAGGCGCTTCAAGAGGGAATTTGAAGAACTTAAGAACTGTAATCATGATCTCTG 360
Db 1928 TACATAGGCGCTTCAAGAGGGAATTTGAAGAACTTAAGAACTGTAATCATGATCTCTG 1987
Qy 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTGTGAAGAGCTGAGAACTTACACAG 420
Db 1988 AGACTGTACGAATATTTCTGACAGAGCAGCTTGTGAAGAGCTGAGAACTTACACAG 2047
Qy 421 AGCCCAAGAGCTCTCTCTGAGAGAGAGCCAGAAATGTCATCTGCTTCAAGAAAGC 480
Db 2048 AGCCCAAGAGCTCTCTCTGAGAGAGAGCCAGAAATGTCATCTGCTTCAAGAAAGC 2107
Qy 481 AGGCTGAGAGAGTCAATCTGATGAGGAAAAATTGAACCTGACCTGCTGATCTGACGA 540
Db 2108 AGGCTGAGAGAGTCAATCTGATGAGGAAAAATTGAACCTGACCTGCTGATCTGACGA 2167
Qy 541 GAAAAATATGATGAGACCTTGAAGAGCTCCAGAACTTCAAGAGGCCAGGATGAGCTG 600
Db 2168 GAAAAATATGATGAGACCTTGAAGAGCTCCAGAACTTCAAGAGGCCAGGATGAGCTG 2227
Qy 601 ACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCTGACAGCCCGTGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCTGACAGCCCGTGGCGATCTCC 2287
Qy 661 TCATTGACTCTCTCAAGATACCTCCGAAAAATCAAGGACCTTGGAGGAAATTTGGC 720
Db 2288 TCATTGACTCTCTCAAGATACCTCCGAAAAATCAAGGACCTTGGAGGAAATTTGGC 2347
Qy 721 CTCTGAAGAGAGAGTGAAGCCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
Db 2348 CTCTGAAGAGAGAGTGAAGCCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2407
Qy 781 TTCAGCTCTACCGTATTAACCTCAGACCTGGAAGACCTGGAACCAAGATGGAAGCTTC 840
Db 2408 TTCAGCTCTACCGTATTAACCTCAGACCTGGAAGACCTGGAACCAAGATGGAAGCTTC 2467
Qy 841 TGCAGGTGCGCGTGCAGGACCGAGTCAGGACAGCTGATGAAGCCACAGGAGCTTTGGTC 900
Db 2468 TGCAGGTGCGCGTGCAGGACCGAGTCAGGACAGCTGATGAAGCCACAGGAGCTTTGGTC 2527
Qy 901 CAGCATCTCAGACATTTCTTTTCCAGCTGTCTCAGAGGTCCCTGGAGAGAGCCATCTGC 960
Db 2528 CAGCATCTCAGACATTTCTTTTCCAGCTGTCTCAGAGGTCCCTGGAGAGAGCCATCTGC 2587
Qy 961 CAAACAAAGTCCCTCTACTATATCAACCAAGAGATCTCAACAACTTGTGGAGCATCTCCA 1020

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Db 2588 CAAACAAAGTCCCTTATATCAACCAAGAGACTCAAAACACTTGCTGGACCATCCCA 2647
QY 1021 AAATGACAGAGCTTACACGACTCTTAAAGTACCTGAATATGTCAAGATTTCAAGTTATA 1080
Db 2648 AAATGACAGAGCTTACACGACTCTTAAAGTACCTGAATATGTCAAGATTTCAAGTTATA 2707
QY 1081 GGAAGTCCATGAACTCCGAAAGCTGCAAGAGCCCTTGTGGATCTCTTGAAGCCCTGT 1140
Db 2708 GGAAGTCCATGAACTCCGAAAGCTGCAAGAGCCCTTGTGGATCTCTTGAAGCCCTGT 2767
QY 1141 CAGCTGATGATGATCTTGGACGACCAACCTCAAGCAAAATGACCAAGCCCATGGATA 1200
Db 2768 CAGCTGATGATGATCTTGGACGACCAACCTCAAGCAAAATGACCAAGCCCATGGATA 2827
QY 1201 TCCGCAATATTTATTTATTTGTTGACCACTATTTATGACCCCTGGAGCAAGACAAACA 1260
Db 2828 TCCGCAATATTTATTTATTTGTTGACCACTATTTATGACCCCTGGAGCAAGACAAACA 2887
QY 1261 ATTTGTCACAGTCCCTCTGCGGTGATATGTCTGAACTGGCATATTTCCCTGT 1320
Db 2888 ATTTGTCACAGTCCCTCTGCGGTGATATGTCTGAACTGGCATATTTCCCTGT 2947
QY 1321 ATAGGAGCAAGACGAGGAGATCCGTGCTCTTTTAAACTGGCATATTTCCCTGT 1380
Db 2948 ATAGGAGCAAGACGAGGAGATCCGTGCTCTTTTAAACTGGCATATTTCCCTGT 3007
QY 1381 GTAAAGCAATTTGGAAGCAATGACATCTTTTCAAGCAAGTGGCAAGTTCAACAG 1440
Db 3008 GTAAAGCAATTTGGAAGCAATGACATCTTTTCAAGCAAGTGGCAAGTTCAACAG 3067
QY 1441 GATTTGTGACAGCGAGGCTGGCTCTCTTGTGATGATTTCTTCAAAATTTCCAAAGC 1500
Db 3068 GATTTGTGACAGCGAGGCTGGCTCTCTTGTGATGATTTCTTCAAAATTTCCAAAGC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 6
US-09-949-016-2806
/ Sequence 2806, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CLO01307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2806
/ LENGTH: 7070
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-2806

Query Match 99.98; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.98; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTGACACAGATGTTTATCAACCTGGATGAAACAGCCAAAATCTGAGATCTTGG 60
Db 1628 CTGACACAGATGTTTATCAACCTGGATGAAACAGCCAAAATCTGAGATCTTGG 1687
QY 61 AAGTTCCGATGATGACGTCCTGTTTCAAAAGCTTTGATGAATGAATCTCAAGTGA 120

Db 1688 AAGTTCCGATGATGACGTCCTGTTTCAAAAGCTTTGATGAATGAATCTCAAGTGA 1747
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCATTGGAAGCCAGTTTCAAGCAGT 180
Db 1748 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCATTGGAAGCCAGTTTCAAGCAGT 1807
QY 181 GGAAGCTCTGACACTTCTCTGCAAGAACTTGTGTGTGCTTCACTGAAAGATGATG 240
Db 1808 GGAAGCTCTGACACTTCTCTGCAAGAACTTGTGTGTGCTTCACTGAAAGATGATG 1867
QY 241 AATTAGCCGAGGACACTTATTTGAGGCGACTTTCCAGAGTTCCAGAACAGATG 300
Db 1868 AATTAGCCGAGGACACTTATTTGAGGCGACTTTCCAGAGTTCCAGAACAGATG 1927
QY 301 TACATAGGCGCTTCAAGAGGGAATTGAAACTTAAGAACTGTATATCATGATCTTGG 360
Db 1928 TACATAGGCGCTTCAAGAGGGAATTGAAACTTAAGAACTGTATATCATGATCTTGG 1987
QY 361 AGACTGTACGAATATTTTCTGACAGAGAGCTTTTGGAGGACTTGAAGAACTTACAG 420
Db 1988 AGACTGTACGAATATTTTCTGACAGAGAGCTTTTGGAGGACTTGAAGAACTTACAG 2047
QY 421 AGCCAGAGAGCTGCTCTGAGAGAGAGAGCCCAATGTCATCTGGCTTCTTACGAAAGC 480
Db 2048 AGCCAGAGAGCTGCTCTGAGAGAGAGAGCCCAATGTCATCTGGCTTCTTACGAAAGC 2107
QY 481 AGGCTGAGAGGTCATTAATCTGATGAGGAAATTTGAACCTGCACTCCGCTGACCTGG 540
Db 2108 AGGCTGAGAGGTCATTAATCTGATGAGGAAATTTGAACCTGCACTCCGCTGACCTGG 2167
QY 541 GAAAAATGATGAGAACCTTTGAAAGCTCAGAACTTCAAGAGCCACGATGAGCTGG 600
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QY 601 ACCTCAAGCTGCGCCAGAGCTGAGTATCAAGGATCCGAGAGCCGCTGGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCCAGAGCTGAGTATCAAGGATCCGAGAGCCGCTGGGCGATCTCC 2287
QY 661 TCATTAAGCTCTCTCAAGATCACTCTGAGAAAGTCAAGGCACTTCAAGAGAAATTCGCG 720
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QY 721 CTCTGAAAGAGAACTGAGCAAGTCAATGACTTGTCTGCGACCTTACCACTTTGGGCA 780
Db 2348 CTCTGAAAGAGAACTGAGCAAGTCAATGACTTGTCTGCGACCTTACCACTTTGGGCA 2407
QY 781 TTCAGCTCTCAACCTGATTAACCTCAAGCACTTGAAGACTGAACACCAATGAAAGCTTC 840
Db 2408 TTCAGCTCTCAACCTGATTAACCTCAAGCACTTGAAGACTGAACACCAATGAAAGCTTC 2467
QY 841 TGCAGTGGCCGTCGAGAGCCGAGTCAAGGAGCTGCAATGAAGCCCAAGGAACTTTGGTC 900
Db 2468 TGCAGTGGCCGTCGAGAGCCGAGTCAAGGAGCTGCAATGAAGCCCAAGGAACTTTGGTC 2527
QY 901 CAGCATCTCAGCACTTCTTTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCATGTGC 960
Db 2528 CAGCATCTCAGCACTTCTTTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCATGTGC 2587
QY 961 CAACCAAAAGTCCCTTATATCAACCAAGAGACTCAAAACAATTGCTGGACCAATCCCA 1020
Db 2588 CAACCAAAAGTCCCTTATATCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCA 2647
QY 1021 AAATGACAGAGCTTACACGACTCTTAAAGTACCTTGAAGCCAGTTTCAAGCAGT 1080
Db 2648 AAATGACAGAGCTTACACGACTCTTAAAGTACCTTGAAGCCAGTTTCAAGCAGT 2707
QY 1081 GGAAGTCCATGAACTCCGAAAGCTGCAAGAGCCCTTGTGGATCTCTTGAAGCCCTGT 1140
Db 2708 GGAAGTCCATGAACTCCGAAAGCTGCAAGAGCCCTTGTGGATCTCTTGAAGCCCTGT 2767
QY 1141 CAGCTCATGTATGCTTGGACGACCAACCTCAAGCAAAATGACCAAGCCCATGATGA 1200

Db 2768 CAGCTGATGTGATGCTTGGACGACCAACCTTCAGCAAAATGACGACCATGATA 2827
 Oy 1201 TCCTGCAGATTATTAATTTGTTGACCACTATTATTAACCGCTGGAGAGACACA 1260
 Db 2828 TCCTGCAGATTATTAATTTGTTGACCACTATTATTAACCGCTGGAGAGACACA 2887
 Oy 1261 ATTTGTCACGCTCCCTCTCTGCGTGATATGTGTCTGAACCTGCGTGTGAATGTTATG 1320
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 Oy 1321 ATAGGCGACGAAACGAGGAGATCCGTGTCTGTCTTTTAAACCTGCAATCTTCCCTGT 1380
 Db 2948 ATAGGCGACGAAACGAGGAGATCCGTGTCTGTCTTTTAAACCTGCAATCTTCCCTGT 3007
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 Db 3008 GTAAAGCAGATTGGAGAGAGATACGATACCTTTTGAAGGAGGCAAGTTCAACG 3067
 Oy 1441 GATTTTGTGACGACGAGGCTGCGCTCTCTTGTGATGATTTCTATCCAAATTCAGAC 1500
 Db 3068 GATTTTGTGACGACGAGGCTGCGCTCTCTTGTGATGATTTCTATCCAAATTCAGAC 3127
 Oy 1501 A 1501
 Db 3128 A 3128

RESULT 7
 US-09-949-016-2807
 ; Sequence 2807, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: C1001307
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: ParseSeq for Windows Version 4.0
 ; SEQ ID NO 2807
 ; LENGTH: 7070
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-016-2807

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 CTCACACGAGATTGATGACCAACCTGATGAAAAACGCAAAAATCTGTGATCTCCG 60
 Db 1628 CTCACACGAGATTGATGACCAACCTGATGAAAAACGCAAAAATCTGTGATCTCCG 1687
 Oy 61 AAGGTTCCGATGATGACGCTCTGTATCAAAAGAGCTTTGATTAACATACTTCAAGTGA 120
 Db 1688 AAGGTTCCGATGATGACGCTCTGTATCAAAAGAGCTTTGATTAACATACTTCAAGTGA 1747
 Oy 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 180
 Db 1748 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 1807
 Oy 181 GGAAGCGCTGACACTTCTCTGACGAGAACTTTGTGTGTGCTACAGCTGAAAGATGATG 240
 Db 1808 GGAAGCGCTGACACTTCTCTGACGAGAACTTTGTGTGTGCTACAGCTGAAAGATGATG 1867
 Oy 241 AATTAGCGGACGACGACCTATGAGAGGCACTTCCAGAGATTCAAGACGAACGATG 300

Db 1868 AATTAGCGGACGACGACCTATGAGGCGACTTTCCAGAGCTTCAGAAAGACGAACGATG 1927
 Oy 301 TACATAGGCGCTTCAAGAGGGAATGAAAACTAAAGAACCTGATATCATGAGTCTCTTG 360
 Db 1928 TACATAGGCGCTTCAAGAGGGAATGAAAACTAAAGAACCTGATATCATGAGTCTCTTG 1987
 Oy 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGAAAGGACTAGAGAACTTACACAG 420
 Db 1988 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGAAAGGACTAGAGAACTTACACAG 2047
 Oy 421 AGCCGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTGCTTACGAAAGC 480
 Db 2048 AGCCGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTGCTTACGAAAGC 2107
 Oy 481 AGCGTGAAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACGCGAGA 540
 Db 2108 AGCGTGAAGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACGCGAGA 2167
 Oy 541 GAAAAATAGATGAGACCTTGAAGAGACTCCAGAACTTCAAGAGGCGACGATGAGCTG 600
 Db 2168 GAAAAATAGATGAGACCTTGAAGAGACTCCAGAACTTCAAGAGGCGACGATGAGCTG 2227
 Oy 601 ACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGAGATCTGCGACCCGCTGCGATCTCC 660
 Db 2228 ACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGAGATCTGCGACCCGCTGCGATCTCC 2287
 Oy 661 TCATTGACTCTCTCCAAAGATACCTCCGAGAAAGTCAAGGCACTTTCAGAGAAATTTGGC 720
 Db 2288 TCATTGACTCTCTCCAAAGATACCTCCGAGAAAGTCAAGGCACTTTCAGAGAAATTTGGC 2347
 Oy 721 CTCTGAAAGAGAGAGTGAGGACGATCAATGACCTTGTCTGCGACGATTTACACTTTGGCA 780
 Db 2348 CTCTGAAAGAGAGAGTGAGGACGATCAATGACCTTGTCTGCGACGATTTACACTTTGGCA 2407
 Oy 781 TTCAGCTCTCACCGTATTAACCTGACACTCTGGAAGACTTGAACACAGATGAAAGCTTC 840
 Db 2408 TTCAGCTCTCACCGTATTAACCTGACACTCTGGAAGACTTGAACACAGATGAAAGCTTC 2467
 Oy 841 TGCAGTGTGCGGTGAGAGACCGAGTCAAGGACGCTGATGAAGCCCAAGGAGACTTTGGTC 900
 Db 2468 TGCAGTGTGCGGTGAGAGACCGAGTCAAGGACGCTGATGAAGCCCAAGGAGACTTTGGTC 2527
 Oy 901 CAGCATCTCAGACCTTCTTCCAGAGTCTGTCCAGGAGCTCTGGAAGAGACCACTTCTGC 960
 Db 2528 CAGCATCTCAGACCTTCTTCCAGAGTCTGTCCAGGAGCTCTGGAAGAGACCACTTCTGC 2587
 Oy 961 CAAACAAAGTGCCCTACTATATCAACACGAGACTCAACAACTTGTGGAACCATCCCA 1020
 Db 2588 CAAACAAAGTGCCCTACTATATCAACACGAGACTCAACAACTTGTGGAACCATCCCA 2647
 Oy 1021 AAATGACAGAGCTTACAGAGCTTTAGCTGACCTGATTAATGTCAGATTTCTCAGCTTATA 1080
 Db 2648 AAATGACAGAGCTTACAGAGCTTTAGCTGACCTGATTAATGTCAGATTTCTCAGCTTATA 2707
 Oy 1081 GGACTGCGCATGAACCTCGAAGAGCTGCAAGAGGCGCTTGTGTGATCTTGAAGCGCTGT 1140
 Db 2708 GGACTGCGCATGAACCTCGAAGAGCTGCAAGAGGCGCTTGTGTGATCTTGAAGCGCTGT 2767
 Oy 1141 CAGCTGATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATTA 1200
 Db 2768 CAGCTGATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGATTA 2827
 Oy 1201 TCCTGCAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACACA 1260
 Db 2828 TCCTGCAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACACA 2887
 Oy 1261 ATTTGTCACAGTCCCTCTCTGCGTGATATGTGTGCAACTGCGCTGTGAATGTTATG 1320
 Db 2888 ATTTGTCACAGTCCCTCTCTGCGTGATATGTGTGCAACTGCGCTGTGAATGTTATG 2947
 Oy 1321 ATAGGCGACGAAACGAGGAGATCCGTGTCTGTCTTTTAAACTGGAATCAATTTCCCTGT 1380

Db 2948 ATACGGAGCAAGAGGAGATCCGTGCTCTTTTAAACTGGCATTTCCCTGT 3007
Qy 1381 GTAAGACATTTTGAAGACAGATACCTTTTCAAGCAAGTGGCAATTCAACAG 1440
Db 3008 GTAAGACATTTTGAAGACAGATACCTTTTCAAGCAAGTGGCAATTCAACAG 3067
Qy 1441 GATTTTGAACGACGAGGCTGCTCTTCTGATGATTTATCCAAATTCGAAGAC 1500
Db 3068 GATTTTGAACGACGAGGCTGCTCTTCTGATGATTTATCCAAATTCGAAGAC 3127
Qy 1501 A 1501
Db 3128 A 3128

RESULT 8
US-09-949-016-2808
; Sequence 2808, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2808
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2808

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CTCACACGATGTATATCAACAACCTGATGAAACAGCAAAATCTTGATCCTGG 60
Db 1628 CTCACACGATGTATATCAACAACCTGATGAAACAGCAAAATCTTGATCCTGG 1687
Qy 61 AAGGTTCCGATGATGACAGTCTCTTTTCAAAAGCGTTGGATATCATGAACTTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGACAGTCTCTTTTCAAAAGCGTTGGATATCATGAACTTCAAGTGA 1747
Qy 121 GTGAACCTTGGAAAAAGCTCTCAACATTTAGTCCATTGGAAAGCCAGTTCTGACCAGT 180
Db 1748 GTGAACCTTGGAAAAAGCTCTCAACATTTAGTCCATTGGAAAGCCAGTTCTGACCAGT 1807
Qy 181 GGAAGCGTCTGACATTTCTCTGACAGAACTTGTGATGCTACACCTGAAGAATGATG 240
Db 1808 GGAAGCGTCTGACATTTCTCTGACAGAACTTGTGATGCTACACCTGAAGAATGATG 1867
Qy 241 AATTAAAGCCGGCAGACCTATTGAGGCGACCTTTCCAGACGTTCCAGAACAGAACGATG 300
Db 1868 AATTAAAGCCGGCAGACCTATTGAGGCGACCTTTCCAGACGTTCCAGAACAGAACGATG 1927
Qy 301 TACATAGGGCCCTTCAAGAGGGAATTGAAAACCTAAAGAACTGTATATCATGATCTCTTG 360
Db 1928 TACATAGGGCCCTTCAAGAGGGAATTGAAAACCTGTAAATCATGATGATCTCTTG 1987
Qy 361 AGACTGTAGCAATATTTCTGACAGAGCAGCTTTGGAGGACTAGAGAACTTACACAG 420
Db 1988 AGACTGTAGCAATATTTCTGACAGAGCAGCTTTGGAGGACTAGAGAACTTACACAG 2047
Qy 421 AGCCAGAGAGCTGCTCTCTGAGAGAGGCCCAAGATGTCACTCGGCTTTTACGAAGC 480

Db 2048 AGCCAGAGAGCTGCTCTCTGAGAGAGAGGCCCAAGATGTCACTCGGCTTTTACGAAGC 2107
Qy 481 AGCTGAGAGAGTCAATCTGATGGGGAATAATTGAACCTGCACTCCGCTGACTGGCAGA 540
Db 2108 AGCTGAGAGAGTCAATCTGATGGGGAATAATTGAACCTGCACTCCGCTGACTGGCAGA 2167
Qy 541 GAAAAATGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGAGCCAGGATGAGCTGG 600
Db 2168 GAAAAATGATGAGACCCCTTGAAGACTCCGAGGAACCTTCAAGAGCCAGGATGAGCTGG 2227
Qy 601 ACCTCAAGCTGCGCAAGCTGAGGATCAAGGATCTTGACAGCCCTGAGGAGATCTCC 660
Db 2228 ACCTCAAGCTGCGCAAGCTGAGGATCAAGGATCTTGACAGCCCTGAGGAGATCTCC 2287
Qy 661 TCATTGACTCTCTCAAGATCACTCCAGAAAGCTCAAGAGCACTTCGAGGAAATTGGCG 720
Db 2288 TCATTGACTCTCTCAAGATCACTCCGAGAAAGCTCAAGAGCACTTCGAGGAAATTGGCG 2347
Qy 721 CTCTGAAAGAGACGTAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 780
Db 2348 CTCTGAAAGAGACGTAGCCACGTCAATGACCTTGCTGCGCAGCTTACCACTTTGGGCA 2407
Qy 781 TTGAGCTCTACCGTATTAACCTCAGACCTGGAAGACCTGAAACACCAATGGAAGCTTC 840
Db 2408 TTGAGCTCTACCGTATTAACCTCAGACCTGGAAGACCTGGAAGACCAAGATGGAAGCTTC 2467
Qy 841 TGCAGTGGCCGTGAGAGACCGAGTCAAGGACGTGATGAGGCCACAGGSACTTTGGTC 900
Db 2468 TGCAGTGGCCGTGAGAGACCGAGTCAAGGACGTGATGAGGCCACAGGSACTTTGGTC 2527
Qy 901 CAGATCTGACACTTTCTTTTCAAGCTGCTCAAGGATCTGCTGGAGAGAGCCATCTGC 960
Db 2528 CAGATCTGACACTTTCTTTTCAAGCTGCTCAAGGATCTGCTGGAGAGAGCCATCTGC 2587
Qy 961 CAAACAAAGTCCCTTACTATATCAACAGAGACTCAAACTTGGCTGGAGCAATCCCA 1020
Db 2588 CAAACAAAGTCCCTTACTATATCAACAGAGACTCAAACTTGGCTGGAGCAATCCCA 2647
Qy 1021 AATGACAGAGCTCTACAGTCTTTTACCTGATGATATGATGATGATGATGATGATGATGAT 1080
Db 2648 AATGACAGAGCTCTACAGTCTTTTACCTGATGATATGATGATGATGATGATGATGATGAT 2707
Qy 1081 GGACTCCATGAAACCTCCAGAGCTGAGAGAGCCCTTGGATCTTGAATCTTGAAGCTGT 1140
Db 2708 GGACTCCATGAAACCTCCAGAGCTGAGAGAGCCCTTGGATCTTGAATCTTGAAGCTGT 2767
Qy 1141 CAGCTGATGATGATGCTTGGACAGCACAACCTGACCAAAATGACCAAGCCATGATGATA 1200
Db 2768 CAGCTGATGATGATGCTTGGACAGCACAACCTGACCAAAATGACCAAGCCATGATGATA 2827
Qy 1201 TCCGAGATTTATATGTTTGAACCACTATTTTGAACCGGCTGAGAGCAAGACCAACA 1260
Db 2828 TCCGAGATTTATATGTTTGAACCACTATTTTGAACCGGCTGAGAGCAAGACCAACA 2887
Qy 1261 ATTTGTCACGCTCCCTCTCTGCGATGATGATGATGATGATGATGATGATGATGATGATG 1320
Db 2888 ATTTGTCACGCTCCCTCTCTGCGATGATGATGATGATGATGATGATGATGATGATGATG 2947
Qy 1321 ATAGGGAGCAAGAGGAGATCCGTCCTCTTTTAAACTGGCACTATTTCCCTGT 1380
Db 2948 ATAGGGAGCAAGAGGAGATCCGTCCTCTTTTAAACTGGCACTATTTCCCTGT 3007
Qy 1381 GTAAGACATTTTGAAGACAGATACCTTTTCAAGCAAGTGGCAATTCAACAG 1440
Db 3008 GTAAGACATTTTGAAGACAGATACCTTTTCAAGCAAGTGGCAATTCAACAG 3067
Qy 1441 GATTTTGAACGACGAGCTGCGCTCTTCTGATGATTTATCCAAATTCGAAGAC 1500
Db 3068 GATTTTGAACGACGAGCTGCGCTCTTCTGATGATTTATCCAAATTCGAAGAC 3127
Qy 1501 A 1501

Db 3128 A 3128

RESULT 9
US-09-949-016-2809
; Sequence 2809, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 2809
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2809

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCACACGATGTTTATTCACAACTGATGAAAAAAGCCAAAAATCTCGAGATCCCTGG 60
Db 1628 CTCACACGATGTTTATTCACAACTGATGAAAAAAGCCAAAAATCTCGAGATCCCTGG 1687
QY 61 AAGGTTCCGATGATGACAGTCTCTGTACAAAGAGCTTTGATTAACAGTCAAGTGA 120
Db 1688 AAGGTTCCGATGATGACAGTCTCTGTACAAAGAGCTTTGATTAACAGTCAAGTGA 1747
QY 121 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTCTGACAGT 180
Db 1748 GTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTCTGACAGT 1807
QY 181 GGAAGCGTCTGACACTTCTCTGACAGAACTTCTGTGTGCTTAACAGTGAAGATGATG 240
Db 1808 GGAAGCGTCTGACACTTCTCTGACAGAACTTCTGTGTGCTTAACAGTGAAGATGATG 1867
QY 241 AATTAGCGCGGACGACCTATTGAGGCGAATTCCAGAGTTGAGAAGCAGAGCATG 300
Db 1868 AATTAGCGCGGACGACCTATTGAGGCGAATTCCAGAGTTGAGAAGCAGAGCATG 1927
QY 301 TACATAGGCGCTTCAAGAGGAAATGAAAACTTAAGAACTGTATCATAGTACTCTTG 360
Db 1928 TACATAGGCGCTTCAAGAGGAAATGAAAACTTAAGAACTGTATCATAGTACTCTTG 1987
QY 361 AGACTGTACGAATATTCTGACAGAGCAGCTTTGAAAGGACTAGAGAACTTACACAG 420
Db 1988 AGACTGTACGAATATTCTGACAGAGCAGCTTTGAAAGGACTAGAGAACTTACACAG 2047
QY 421 AGCCGAGAGAGTGTCTCTGAGAGAGAGCCCAAAATGTCACTGGGCTTCTAGAGAAAGC 480
Db 2048 AGCCGAGAGAGTGTCTCTGAGAGAGAGCCCAAAATGTCACTGGGCTTCTAGAGAAAGC 2107
QY 481 AGGCTGAGAGAGTCAATATCTGAGTGGGAAAAATTAACCTGCACTCCGCTGACTGGCAGA 540
Db 2108 AGGCTGAGAGAGTCAATATCTGAGTGGGAAAAATTAACCTGCACTCCGCTGACTGGCAGA 2167
QY 541 GAAAAATATGATGAGACCTCTTGAAGAACTTCAGAGAACTTCAAGAGCCACAGATGAGCTGG 600
Db 2168 GAAAAATATGATGAGACCTCTTGAAGAACTTCAGAGAACTTCAAGAGCCACAGATGAGCTGG 2227
QY 601 ACCTAGACTGCGCAAGCTGAGTGAACAGGATCTCGGACGCCGCGGAGATCTCC 660

Db 2228 ACCTAGACTGCGCAAGCTGAGTGAACAGGATCTCGGACGCCGCGGAGATCTCC 2287
QY 661 TCATTTGACTCTCTCCAAAGATACCTCCGAGAAAGTCAAGGACCTTCGAGAGAAATTTGGC 720
Db 2288 TCATTTGACTCTCTCCAAAGATACCTCCGAGAAAGTCAAGGACCTTCGAGAGAAATTTGGC 2347
QY 721 CTCGAAAGAGAAAGTGAGCCAGCTCAATGACCTTGTCTGCGACGTTACACTTTGGGCA 780
Db 2348 CTCGAAAGAGAAAGTGAGCCAGCTCAATGACCTTGTCTGCGACGTTACACTTTGGGCA 2407
QY 781 TTCAGCTTCAACCGATATACCTCAGACACTTGAAGACCTGAACACAGATGAAAGCTTC 840
Db 2408 TTCAGCTTCAACCGATATACCTCAGACACTTGAAGACCTGAACACAGATGAAAGCTTC 2467
QY 841 TGCAGGTGCGGTGAGAGACCGAGTCAAGGACGCTGATGAAGGCCACAGGACCTTTGGTC 900
Db 2468 TGCAGGTGCGGTGAGAGACCGAGTCAAGGACGCTGATGAAGGCCACAGGACCTTTGGTC 2527
QY 901 CAGCATCTCAGACACTTCTTCCAGGTGTCCAGGGTCCCTGGGAGAGAGCATCTGC 960
Db 2528 CAGCATCTCAGACACTTCTTCCAGGTGTCCAGGGTCCCTGGGAGAGAGCATCTGC 2587
QY 961 CAAACAAAGTCCCTACTATATCAACAGAGACTCAAACTTAACCTTGCGGACATCCCA 1020
Db 2588 CAAACAAAGTCCCTACTATATCAACAGAGACTCAAACTTAACCTTGCGGACATCCCA 2647
QY 1021 AAATGACAGAGCTTACCAAGCTTTTACGTGACCTGATATATGATGATTCAGATTTA 1080
Db 2648 AAATGACAGAGCTTACCAAGCTTTTACGTGACCTGATATATGATGATTCAGATTTA 2707
QY 1081 GGAATGCAATGAACTCCGAGAGAGTGCAGAGGACCTTGTGATCTCTTGAGCTGT 1140
Db 2708 GGAATGCAATGAACTCCGAGAGAGTGCAGAGGACCTTGTGATCTCTTGAGCTGT 2767
QY 1141 CAGCTGATGATGATGCTTTGACAGCAACAACTCAAGCAAAATGACCAAGCCATGATA 1200
Db 2768 CAGCTGATGATGATGCTTTGACAGCAACAACTCAAGCAAAATGACCAAGCCATGATA 2827
QY 1201 TCTGCGAATTAATTAATTTTGAACCACTATTTATGACCGCTGAGAGCAAGCAACA 1260
Db 2828 TCTGCGAATTAATTAATTTTGAACCACTATTTATGACCGCTGAGAGCAAGCAACA 2887
QY 1261 AATTGCTCAAGTCCCTCTGCGGTGATATGATGATGATGATGATGATGATGATGATG 1320
Db 2888 AATTGCTCAAGTCCCTCTGCGGTGATATGATGATGATGATGATGATGATGATGATG 2947
QY 1321 ATACGGAGCAAGAGGAGATCCGTCTCTTTTAAACTGATCAATTTCCCTGT 1380
Db 2948 ATACGGAGCAAGAGGAGATCCGTCTCTTTTAAACTGATCAATTTCCCTGT 3007
QY 1381 GTAAAGCAATTTGAGAGCAAGTACAGATACCTTTTCAAGAGTGGCAAGTTCAACAG 1440
Db 3008 GTAAAGCAATTTGAGAGCAAGTACAGATACCTTTTCAAGAGTGGCAAGTTCAACAG 3067
QY 1441 GATTTTGAACAGGCGAGGCGCTCTTGCAGATGATTTCAATTTCCAAAGC 1500
Db 3068 GATTTTGAACAGGCGAGGCGCTCTTGCAGATGATTTCAATTTCCAAAGC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 10
US-09-949-016-2810
; Sequence 2810, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307

TYPE: DNA
ORGANISM: Human
US-09-949-016-2811

Query Match 99.9%; Score 1499.4; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 CTCACAGATGTTTATGACAACTGATGAAAAGAGCAAAATTCCTGAGATCCCTGG 60
Db CTCACAGATGTTTATGACAACTGATGAAAAGAGCAAAATTCCTGAGATCCCTGG 1687
QY AAGGTTCCGATGATGACAGTCTGTATCAAGAAGCTTTGGATTAACATGAACTTCAAGTGA 120
Db AAGGTTCCGATGATGACAGTCTGTATCAAGAAGCTTTGGATTAACATGAACTTCAAGTGA 1747
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTTGGAGCCAGTTCTGACAGT 180
Db 1748 GTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCCATTTTGGAGCCAGTTCTGACAGT 1807
QY 181 GGAAGCGTCTGACCTTCTCTGAGAGAACTTCTGTGTGCTAGCTGAAAGATGATG 240
Db 1808 GGAAGCGTCTGACCTTCTCTGAGAGAACTTCTGTGTGCTAGCTGAAAGATGATG 1867
QY 241 AATTAAAGCGGACAGCACTTAATTGAGGCACTTTCAGAGATTGAGAGCAGAAAGATG 300
Db 1868 AATTAAAGCGGACAGCACTTAATTGAGGCACTTTCAGAGATTGAGAGCAGAAAGATG 1927
QY 301 TACATAGGCGCTTCAAGAGGGAATGAAACTAAAGAACTGTAAATCATGAGTACTCTTG 360
Db 1928 TACATAGGCGCTTCAAGAGGGAATGAAACTAAAGAACTGTAAATCATGAGTACTCTTG 1987
QY 361 AGACTGTGCAAAATTTTCTGACAGAGCAGCTTGGAGAGATTAAGAACTTAAGAACTTAACCGAG 420
Db 1988 AGACTGTGCAAAATTTTCTGACAGAGCAGCTTGGAGAGATTAAGAACTTAAGAACTTAACCGAG 2047
QY 421 AGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTGCGCTTCTACAGAAAGC 480
Db 2048 AGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTGCGCTTCTACAGAAAGC 2107
QY 481 AGGCTGAGAGAGTCAATCTGAGTGGAAAAATTTGAACCTGCACTGCGCTGATCTGGCAGA 540
Db 2108 AGGCTGAGAGAGTCAATCTGAGTGGAAAAATTTGAACCTGCACTGCGCTGATCTGGCAGA 2167
QY 541 GAAAAATATGATGAGACCTTTGAAAACTTCCAGAGAACTTCAAGAGCCAGATGAGCTGG 600
Db 2168 GAAAAATATGATGAGACCTTTGAAAACTTCCAGAGAACTTCAAGAGCCAGATGAGCTGG 2227
QY 601 ACCTCAAGCTGCGCAAGCTGAGTATCAAGAGATCTGCGAGCCGCTGGGCGATCTCC 660
Db 2228 ACCTCAAGCTGCGCAAGCTGAGTATCAAGAGATCTGCGAGCCGCTGGGCGATCTCC 2287
QY 661 TCATTGACTCTCTCCAGATGACCTCGAAGAAATGCAAGGCACTTGAAGAGAAATTTGGGC 720
Db 2288 TCATTGACTCTCTCCAGATGACCTCGAAGAAATGCAAGGCACTTGAAGAGAAATTTGGGC 2347
QY 721 CTCTGAAAGAAAGCTGAGCAAGTCAATGACCTTGTCTGCGCAGTTTACCACTTTGGGCA 780
Db 2348 CTCTGAAAGAAAGCTGAGCAAGTCAATGACCTTGTCTGCGCAGTTTACCACTTTGGGCA 2407
QY 781 TTGAGCTCTACCGGTATACCTCGAGCACTTGAAGAGCTGAAACAGAGATGAAAGCTTC 840
Db 2408 TTGAGCTCTACCGGTATACCTCGAGCACTTGAAGAGCTGAAACAGAGATGAAAGCTTC 2467
QY 841 TGCAGGTGCGCTGAGAGACGAGTCAAGCAAGCTGATGAAGCCCAAGGAACTTTGGTTC 900
Db 2468 TGCAGGTGCGCTGAGAGACGAGTCAAGCAAGCTGATGAAGCCCAAGGAACTTTGGTTC 2527
QY 901 CAGCATCTCACACATTTTCTTTCAGAGTGTCTGCAAGGCTCTCTGGAGAGAGCAATCTGCG 960
Db 2528 CAGCATCTCACACATTTTCTTTCAGAGTGTCTGCAAGGCTCTCTGGAGAGAGCAATCTGCG 2587
QY 961 CAAACAAAGTCCCTACTATATCAACACAGAGACTCAACAACTTGCTGGAGCATCCCA 1020

Db 2588 CAAACAAAGTCCCTACTATATCAACACAGAGACTCAACAACTTGCTGGAGCATCCCA 2647
QY 1021 AAATGACAGACTCTACACAGCTTTAGTGAACCTGAAATATGTAGATTCAGACTTATA 1080
Db 2648 AAATGACAGACTCTACACAGCTTTAGTGAACCTGAAATATGTAGATTCAGACTTATA 2707
QY 1081 GGACTGCGATGAACTCCGAGAGCTGCAAGAGCCCTTGTGGATCTCTTGAAGCTGT 1140
Db 2708 GGACTGCGATGAACTCCGAGAGCTGCAAGAGCCCTTGTGGATCTCTTGAAGCTGT 2767
QY 1141 CAGCTGATGATGATGCTTGGACAGCAACCTTCAGCAAAATGACAGCCCATGATTA 1200
Db 2768 CAGCTGATGATGATGCTTGGACAGCAACCTTCAGCAAAATGACAGCCCATGATTA 2827
QY 1201 TCTGCAAGATTTATATTTGTTGACCACTATTTATGACCCGCTGAGAGAGACACACA 1260
Db 2828 TCTGCAAGATTTATATTTGTTGACCACTATTTATGACCCGCTGAGAGAGACACACA 2887
QY 1261 AATTGATCAAGCTCCCTCTGCGTGAATGTGTCTGAACCTGGCTGTAATGTTATG 1320
Db 2888 AATTGATCAAGCTCCCTCTGCGTGAATGTGTCTGAACCTGGCTGTAATGTTATG 2947
QY 1321 ATACGGAGCAACAGGAGATCCGTGTCTGTCTTTTAAACTGGCATCTTCCCTGT 1380
Db 2948 ATACGGAGCAACAGGAGATCCGTGTCTGTCTTTTAAACTGGCATCTTCCCTGT 3007
QY 1381 GTAAAGCAATTTTGAAGACAGTACAGATACCTTTTACAGCAAGTGGCAAGTTCAACG 1440
Db 3008 GTAAAGCAATTTTGAAGACAGTACAGATACCTTTTACAGCAAGTGGCAAGTTCAACG 3067
QY 1441 GATTTTGTGACAGGAGCGCTGGGCGCTCTTGTGATGATTTCTATCCAAATTCAGAAC 1500
Db 3068 GATTTTGTGACAGGAGCGCTGGGCGCTCTTGTGATGATTTCTATCCAAATTCAGAAC 3127
QY 1501 A 1501
Db 3128 A 3128

RESULT 12
US-09-949-016-2812
; Sequence 2812, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2812

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 CTCACAGATGTTTATGACAACTGATGAAAAGAGCAAAATTCCTGAGATCCCTGG 60
Db 1628 CTCACAGATGTTTATGACAACTGATGAAAAGAGCAAAATTCCTGAGATCCCTGG 1687

QY 61 AAGTCCGATGATGAGTCTGTTCAAGAAGCTTGGATTAATGAATTAAGTGA 120
DB 1688 AAGTCCGATGATGAGTCTGTTCAAGAAGCTTGGATTAATGAATTAAGTGA 1747
QY 121 GTGAATTTGGAAAAAGTCTTCAACATTTAGTCCATTTGGAGCCAGTCTGACAGT 180
DB 1748 GTGAATTTGGAAAAAGTCTTCAACATTTAGTCCATTTGGAGCCAGTCTGACAGT 1807
QY 181 GGAAGGCTGTGACCTTTCTGCGAGGAATTTGGTGGTGTGCTACAGCTGAAGATGATG 240
DB 1808 GGAAGGCTGTGACCTTTCTGCGAGGAATTTGGTGGTGTGCTACAGCTGAAGATGATG 1867
QY 241 AATTAGCCGCGAGGACCTTATTTGGAGGCGATTTTCCAGAGTTCAGAGGAGAGATG 300
DB 1868 AATTAGCCGCGAGGACCTTATTTGGAGGCGATTTTCCAGAGTTCAGAGGAGAGATG 1927
QY 301 TACATAGGAGCTTCAAGAGGGAATTTGAATTAAGAACTGTATATGATGATCTTTG 360
DB 1928 TACATAGGAGCTTCAAGAGGGAATTTGAATTAAGAACTGTATATGATGATCTTTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGAGCTTTGAAAGACTGAGAACTTACAGAG 420
DB 1988 AGACTGTACGAATATTTCTGACAGAGAGCTTTGAAAGACTGAGAACTTACAGAG 2047
QY 421 AGCCGAGAGAGCTGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 2048 AGCCGAGAGAGCTGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2107
QY 481 AGGCTGAGAGAGTCAATATGATGAGGAAAAATTTGAACCTGCACTCGCTGAGCTGAG 540
DB 2108 AGGCTGAGAGAGTCAATATGATGAGGAAAAATTTGAACCTGCACTCGCTGAGCTGAG 2167
QY 541 GAAAAATGATGAGAGAGCTTTGAAAGTCTCAAGAACTTCAAGAGGACGATGAGCTG 600
DB 2168 GAAAAATGATGAGAGAGCTTTGAAAGTCTCAAGAACTTCAAGAGGACGATGAGCTG 2227
QY 601 ACCTCAAGCTGCGCAGAGTGAAGTATCAAGAGAGTCCGAGAGAGAGAGAGAGAGAG 660
DB 2228 ACCTCAAGCTGCGCAGAGTGAAGTATCAAGAGAGTCCGAGAGAGAGAGAGAGAGAG 2287
QY 661 TCATTAAGTCTGCTCCCAAGATCACCTTGAGAGAAAGTCAAGGACCTTCAAGAGAGAG 720
DB 2288 TCATTAAGTCTGCTCCCAAGATCACCTTGAGAGAAAGTCAAGGACCTTCAAGAGAGAG 2347
QY 721 CTCTGAAAGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 2348 CTCTGAAAGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2407
QY 781 TTCAGCTTCACCGTATTAAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 2408 TTCAGCTTCACCGTATTAAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2467
QY 841 TGCAGAGTGCCTGAG 900
DB 2468 TGCAGAGTGCCTGAG 2527
QY 901 CAGCATCTCAGAGATTTTCTTCAAGTCTGTCAGAGGTTCCCTGGAGAGAGAGAGAGAG 960
DB 2528 CAGCATCTCAGAGATTTTCTTCAAGTCTGTCAGAGGTTCCCTGGAGAGAGAGAGAGAG 2587
QY 961 CAACCAAGAGTCCCTCAATATCAACAGAGAGATCAACCAAGTGTGGAGCATCCCA 1020
DB 2588 CAACCAAGAGTCCCTCAATATCAACAGAGAGATCAACCAAGTGTGGAGCATCCCA 2647
QY 1021 AATGAGCAGAGCTTACCAAGTCTTACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
DB 2648 AATGAGCAGAGCTTACCAAGTCTTACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2707
QY 1081 GGAAGTGCATGAACTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
DB 2708 GGAAGTGCATGAACTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2767
QY 1141 CAGCTGATGATGATGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1200

DB 2768 CAGCTGATGATGATGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 2827
QY 1201 TCCTGAGATTTATTTATTTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
DB 2828 TCCTGAGATTTATTTATTTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2887
QY 1261 AATTGGTCAAGCTCCCTCTGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
DB 2888 AATTGGTCAAGCTCCCTCTGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2947
QY 1321 ATAGGAG 1380
DB 2948 ATAGGAG 3007
QY 1381 GTAAAGCAGATTTGAG 1440
DB 3008 GTAAAGCAGATTTGAG 3067
QY 1441 GATTTTGTGACAG 1500
DB 3068 GATTTTGTGACAG 3127
QY 1501 A 1501
DB 3128 A 3128

RESULT 13
US-09-949-016-2813
; Sequence 2813, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2813
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2813

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCAACAGAGATTTATCAACAGCTGATGAAGAAAGCCAAAGAAATCTGAGATCCCTGG 60
DB 1628 CTCAACAGAGATTTATCAACAGCTGATGAAGAAAGCCAAAGAAATCTGAGATCCCTGG 1687
QY 61 AAGGTTCCGATGATGAGAGTCTGTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
DB 1688 AAGGTTCCGATGATGAGAGTCTGTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1747
QY 121 GTGAATTTGGAAAAAGTCTTCAACATTTAGTCCATTTGGAGCCAGTCTGACAGT 180
DB 1748 GTGAATTTGGAAAAAGTCTTCAACATTTAGTCCATTTGGAGCCAGTCTGACAGT 1807
QY 181 GGAAGGCTGTGACCTTTCTGCGAGGAATTTGGTGGTGTGCTACAGCTGAAGATGATG 240
DB 1808 GGAAGGCTGTGACCTTTCTGCGAGGAATTTGGTGGTGTGCTACAGCTGAAGATGATG 2467

241 AATTAGCGGAGGACCTTATGAGGCGACTTTCAGAGTTTCAGAGCAAGATG 300
Db AATTAGCGGAGGACCTTATGAGGCGACTTTCAGAGTTTCAGAGCAAGATG 1927
Qy TACATAGGGCTTCAAGAGGAAATTTGAAAGAACTGTAATCTAGACTCTTG 360
Db TACATAGGGCTTCAAGAGGAAATTTGAAAGAACTGTAATCTAGACTCTTG 1987
Qy AGACTGTGCAATTTCTGACAGAGGAGCTTTGAAAGAACTGTAAGAACTCTACGAG 420
Db AGACTGTGCAATTTCTGACAGAGGAGCTTTGAAAGAACTGTAAGAACTCTACGAG 2047
Qy AGCCGAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCAGTGGCTTCTACGAAAGC 480
Db AGCCGAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCAGTGGCTTCTACGAAAGC 2107
Qy AGCTGAGAGAGTCAATCTGAGTGGGAAAAATTTGAACCTGCACTCCCTGACTGGCAGA 540
Db AGCTGAGAGAGTCAATCTGAGTGGGAAAAATTTGAACCTGCACTCCCTGACTGGCAGA 2108
Qy GAAAAATGATGAGAGCCCTTGAAGAGCTCCAGGAACTTCAAGAGGCGAGGATGAGCTGG 600
Db GAAAAATGATGAGAGCCCTTGAAGAGCTCCAGGAACTTCAAGAGGCGAGGATGAGCTGG 2168
Qy AACTCAAGCTGCGCGCAAGCTGAGTATCAAGAGGATCTCTGGCAGCCGCTGGCGATCTCC 660
Db AACTCAAGCTGCGCGCAAGCTGAGTATCAAGAGGATCTCTGGCAGCCGCTGGCGATCTCC 2228
Qy TCATTGACTCTCTCCAGATCACTCGAAGAAATGTCAGGCACTTGAAGAGAAATTTGGCG 720
Db TCATTGACTCTCTCCAGATCACTCGAAGAAATGTCAGGCACTTGAAGAGAAATTTGGCG 2288
Qy CTCTGAAAGAGAGTGGAGCAAGTCAATGACCTTGGCTGCGAGCTTTCACCTTTGGGCA 780
Db CTCTGAAAGAGAGTGGAGCAAGTCAATGACCTTGGCTGCGAGCTTTCACCTTTGGGCA 2348
Qy TTCAAGCTCTCAAGCTATACCTCAAGCACTCTGAGAGAACTGTAACCAAGATGAGCTTC 840
Db TTCAAGCTCTCAAGCTATACCTCAAGCACTCTGAGAGAACTGTAACCAAGATGAGCTTC 2408
Qy TGAGAGTGGCGCTGAGAGAGCGAGTCAAGAGCTGATGAAGCCCAAGGAACTTTGGTTC 900
Db TGAGAGTGGCGCTGAGAGAGCGAGTCAAGAGCTGATGAAGCCCAAGGAACTTTGGTTC 2468
Qy CAGCATCTCAGACATTTTCTTTCAGAGTCTGTCAGAGGTCCTCTGGAGAGAGCACTTCGC 960
Db CAGCATCTCAGACATTTTCTTTCAGAGTCTGTCAGAGGTCCTCTGGAGAGAGCACTTCGC 2528
Qy CAAACAAAGTGCCTACTATATCAACAGAGAGCTCAACAACTTGTGGGAGCATCCCA 1020
Db CAAACAAAGTGCCTACTATATCAACAGAGAGCTCAACAACTTGTGGGAGCATCCCA 2588
Qy AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATTAATGTCAAGTTCTCAAGCTTATA 1080
Db AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATTAATGTCAAGTTCTCAAGCTTATA 2648
Qy GGACTGTGCAATTTCTGACAGAGAGTGGAGAGGCTTTGTGCTGTGATCTCTTGAACCTGT 1140
Db GGACTGTGCAATTTCTGACAGAGAGTGGAGAGGCTTTGTGCTGTGATCTCTTGAACCTGT 2708
Qy CAGCTGACGTGATGCTTGGAGCAGAGCAAGCTCAAGCAAAATGACAGAGCCATGAGATA 1200
Db CAGCTGACGTGATGCTTGGAGCAGAGCAAGCTCAAGCAAAATGACAGAGCCATGAGATA 2768
Qy TCCTGACAGATTAATTAATTTGACCACTATTTATGACCGCTGGAGCAAGAGCAACA 1260
Db TCCTGACAGATTAATTAATTTGACCACTATTTATGACCGCTGGAGCAAGAGCAACA 2828
Qy ATTTGAGTCAAGTCCCTCTCTGCGGTGATGATGTCTGAAGCTGGCTGTGAATGTTTATG 1320
Db ATTTGAGTCAAGTCCCTCTCTGCGGTGATGATGTCTGAAGCTGGCTGTGAATGTTTATG 2888
Qy ATAGCGAGCAAGAGGAGATCCGTGTCTGTCTTTTAAAACTGGCATCATTTCCCTGT 1380
Db ATAGCGAGCAAGAGGAGATCCGTGTCTGTCTTTTAAAACTGGCATCATTTCCCTGT 1380

2948 AATTAGCGGAGGAGGAGATCCGTGTCTTTTAAAACTGGCATCATTTCCCTGT 3007
Qy GTAAAGCACTTTGGAAGAGCAAGTACAGATCTTTTCAAGCAAGTGGCAAGTCAAG 1440
Db GTAAAGCACTTTGGAAGAGCAAGTACAGATCTTTTCAAGCAAGTGGCAAGTCAAG 3067
Qy GATTTTGTGACCAAGCGAGGCTGGGCTCTTCTGACATGATTTCAATTCGAATTCAGAC 1500
Db GATTTTGTGACCAAGCGAGGCTGGGCTCTTCTGACATGATTTCAATTCGAATTCAGAC 3127
Qy 1501 A 1501
Db 3128 A 3128

RESULT 14
US-09-949-016-2814
; Sequence 2814, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,768
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2814

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 CTCACACAGATGTTTATACAACTGATGAAACAGCCAAATAATCTGAGATCCCTGG 60
Db CTCACACAGATGTTTATACAACTGATGAAACAGCCAAATAATCTGAGATCCCTGG 1687
Qy AAGGTCGATGATGAGTCTGTTTACAAAGAGCTTTGATACATGAACTTCAAGTGA 120
Db AAGGTCGATGATGAGTCTGTTTACAAAGAGCTTTGATACATGAACTTCAAGTGA 1747
Qy GTGAAGCTTGGAAAAAGCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 180
Db GTGAAGCTTGGAAAAAGCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 1748
Qy GGAAGCGTCTGACCTTTCTCTGACAGAACTTCTGTGTGTGCTACAGCTGAAAGATGATG 240
Db GGAAGCGTCTGACCTTTCTCTGACAGAACTTCTGTGTGTGCTACAGCTGAAAGATGATG 1808
Qy AATTAGCGGAGGAGCACTTATGAGGCGACTTTCCAGAGTTTCAGAGGAGAAAGATG 300
Db AATTAGCGGAGGAGCACTTATGAGGCGACTTTCCAGAGTTTCAGAGGAGAAAGATG 1927
Qy TACATAGGGCTTCAAGAGGAAATTTGAAAGAACTGTAATCTAGACTCTTG 360
Db TACATAGGGCTTCAAGAGGAAATTTGAAAGAACTGTAATCTAGACTCTTG 1928
Qy AGACTGTGCAATTTCTGACAGAGGAGCTTTGAAAGAACTGTAAGAACTCTACGAG 420
Db AGACTGTGCAATTTCTGACAGAGGAGCTTTGAAAGAACTGTAAGAACTCTACGAG 2047

QY 421 AGCCAGAGAGCTCTCTCTGAGAGAGAGCCAGAAATGCTACCTGGCTTCTAGAAAGC 480
DB 2048 AGCCAGAGAGCTCTCTCTGAGAGAGAGCCAGAAATGCTACCTGGCTTCTAGAAAGC 2107
QY 481 AGGCTGAGAGAGTCAATCTGAGTGGAAAAATTGAACTTCGACTCGCTGACTGCGCAGA 540
DB 2108 AGGCTGAGAGAGTCAATCTGAGTGGAAAAATTGAACTTCGACTCGCTGACTGCGCAGA 2167
QY 541 GAAAAATAGATGAGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCGCAAGAGTGAAGTGG 600
DB 2168 GAAAAATAGATGAGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCGCAAGAGTGAAGTGG 2227
QY 601 ACCCTGAGCTGCGCCCAAGCTGAGTGAATCAAGGATCTTCGCAAGCCGCTGGAGTCTCC 660
DB 2228 ACCCTGAGCTGCGCCCAAGCTGAGTGAATCAAGGATCTTCGCAAGCCGCTGGAGTCTCC 2287
QY 661 TCATTTGCTCTCTCAAGATCACTCGAGAACTCAAGGCACTTCAAGAGAAATTGGCGC 720
DB 2288 TCATTTGCTCTCTCAAGATCACTCGAGAACTCAAGGCACTTCAAGAGAAATTGGCGC 2347
QY 721 CTCTGAAAGAAAGTGAAGCAGTCAATGACCTTGTCTGCGCAGCTTCACTTTGGGCA 780
DB 2348 CTCTGAAAGAAAGTGAAGCAGTCAATGACCTTGTCTGCGCAGCTTCACTTTGGGCA 2407
QY 781 TTCAGCTCTCAAGCTTAACTCAAGCACTCTGAGAACTTGAACCAAGAGTGAAGCTTC 840
DB 2408 TTCAGCTCTCAAGCTTAACTCAAGCACTCTGAGAACTTGAACCAAGAGTGAAGCTTC 2467
QY 841 TGCAGGTGCGCGTCAAGAGCCAGTCAAGGCACTGAGTGAAGCCCAAGGAGCTTTGGTC 900
DB 2468 TGCAGGTGCGCGTCAAGAGCCAGTCAAGGCACTGAGTGAAGCCCAAGGAGCTTTGGTC 2527
QY 901 CAGCAATCTCAAGCACTTTCTTTCACAGTCTGTCCAGAGTCTCCGAGAGAGAGCATCTGC 960
DB 2528 CAGCAATCTCAAGCACTTTCTTTCACAGTCTGTCCAGAGTCTCCGAGAGAGAGCATCTGC 2587
QY 961 CAAACAAAGTGCCTCACTATATCAACAAGAGCTCAACAACTTGTCTGGAGCAATCCCA 1020
DB 2588 CAAACAAAGTGCCTCACTATATCAACAAGAGCTCAACAACTTGTCTGGAGCAATCCCA 2647
QY 1021 AAATGACAGAGCTCAACAAGTCTTAACTGAGTGAAGTGAATATGAGATTCACACTTATA 1080
DB 2648 AAATGACAGAGCTCAACAAGTCTTAACTGAGTGAAGTGAATATGAGATTCACACTTATA 2707
QY 1081 GGAATGAGTGAAGTCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1140
DB 2708 GGAATGAGTGAAGTCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 2767
QY 1141 CAGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1200
DB 2768 CAGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 2827
QY 1201 TCCTGAGATTAATTAATTTGTTGACCACTATTTATGACCGCTGAGAGCAAGAGCAACA 1260
DB 2828 TCCTGAGATTAATTAATTTGTTGACCACTATTTATGACCGCTGAGAGCAAGAGCAACA 2887
QY 1261 AATTGATCAAGTCTCTCTGAGTGAATGATGATGATGATGATGATGATGATGATGATGAT 1320
DB 2888 AATTGATCAAGTCTCTCTGAGTGAATGATGATGATGATGATGATGATGATGATGATGAT 2947
QY 1321 AATAGGAGCAAGCAGGAGATCCGTGCTCTTAAATCTGAGATCAATTCCTCTG 1380
DB 2948 AATAGGAGCAAGCAGGAGATCCGTGCTCTTAAATCTGAGATCAATTCCTCTG 3007
QY 1381 GTAAAGCAATTTGAGAGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1440
DB 3008 GTAAAGCAATTTGAGAGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 3067
QY 1441 GATTTTGTGACCAAGCAGGCTGGGCTCTCTGATGATTTCTAATTCAAATTCAGAGC 1500
DB 3068 GATTTTGTGACCAAGCAGGCTGGGCTCTCTGATGATTTCTAATTCAAATTCAGAGC 1501
QY 1501 A 1501

DB 3128 A 3128

RESULT 15
US-09-949-016-2815
Sequence 2815, Application US/09949016
Patent No. 6812319
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: C0001307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2815
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2815

Query Match 99.9%; Score 1499.4; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTACACAGATGTTATTCACAACTGAGTGAAGAAACAGCCAAAATCTGAGATCCCTGG 60
DB 1628 CTACACAGATGTTATTCACAACTGAGTGAAGAAACAGCCAAAATCTGAGATCCCTGG 1687
QY 61 AAGGTCGAGTATGAGTCTGTTACAAAGCCTTTGATTAATCAATTCAGAGTGA 120
DB 1688 AAGGTCGAGTATGAGTCTGTTACAAAGCCTTTGATTAATCAATTCAGAGTGA 1747
QY 121 GTGAACCTTGGAAAAAGTCTCAACATTTAGTCCATTTGGAGCCAGTCTGACAGT 180
DB 1748 GTGAACCTTGGAAAAAGTCTCAACATTTAGTCCATTTGGAGCCAGTCTGACAGT 1807
QY 181 GGAAGGCTGAGACCTTCTCTGAGAGAACTTCTGTGTGCTACAGCTGAAGATGATG 240
DB 1808 GGAAGGCTGAGACCTTCTCTGAGAGAACTTCTGTGTGCTACAGCTGAAGATGATG 1867
QY 241 AATTAAGCCGAGGACCACTTATGAGAGCCTTCCAGAGTTCAGAGAGCAAGCAAGT 300
DB 1868 AATTAAGCCGAGGACCACTTATGAGAGCCTTCCAGAGTTCAGAGAGCAAGCAAGT 1927
QY 301 TACATAGGCGCTTCAAGAGGAAATTGAAACTTAAGAACTGTATCATGATGATCTCTG 360
DB 1928 TACATAGGCGCTTCAAGAGGAAATTGAAACTTAAGAACTGTATCATGATGATCTCTG 1987
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTGGAAAGCACTAGAGAAACTTACACAG 420
DB 1988 AGACTGTACGAATATTTCTGACAGAGCAGCTTGGAAAGCACTAGAGAAACTTACACAG 2047
QY 421 AGCCAGAGAGCTCTCTGAGAGAGAGCCAGAAATGCTCACTGGCTCTACAGAAAGC 480
DB 2048 AGCCAGAGAGCTCTCTGAGAGAGAGCCAGAAATGCTCACTGGCTCTACAGAAAGC 2107
QY 481 AGGCTGAGAGAGTCAATCTGAGTGGAAAAATTGAACTTCGACTCGCTGACTGCGCAGA 540
DB 2108 AGGCTGAGAGAGTCAATCTGAGTGGAAAAATTGAACTTCGACTCGCTGACTGCGCAGA 2167
QY 541 GAAAAATAGATGAGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCGCAAGAGTGAAGTGG 600
DB 2168 GAAAAATAGATGAGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCGCAAGAGTGAAGTGG 2227

QY 601 ACCCTAAGCTGCGCCAAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 660
 Db 2228 ACCCTAAGCTGCGCCAAAGCTGAGTGATCAAGGATCCTGGCAGCCCGTGGCGATCTCC 2287
 QY 661 TCATTGACTCTCTCCAGATCACTTCGAGAAAGTCAAGGCACTTGAGAGAAATTGCGC 720
 Db 2288 TCATTGACTCTCTCCAGATCACTTCGAGAAAGTCAAGGCACTTGAGAGAAATTGCGC 2347
 QY 721 CTCTGAAGAGAGAGTGAAGCAAGCTCAATGACCTTGTGCGAGCTTACCACTTTGGGCA 780
 Db 2348 CTCTGAAGAGAGAGTGAAGCAAGCTCAATGACCTTGTGCGAGCTTACCACTTTGGGCA 2407
 QY 781 TTGAGCTCTCACTGATTAACCTCAAGCACTTGAGAGAACTGAAACAACAGATGAAAGCTTC 840
 Db 2408 TTGAGCTCTCACTGATTAACCTCAAGCACTTGAGAGAACTGAAACAACAGATGAAAGCTTC 2467
 QY 841 TGCAGGTGGCCGTGAGGAGCCGAGTCAAGGCACTGATGAAGCCCAAGGACTTGGTC 900
 Db 2468 TGCAGGTGGCCGTGAGGAGCCGAGTCAAGGCACTGATGAAGCCCAAGGACTTGGTC 2527
 QY 901 CAGCATCTCAGACCTTCTTCCAGTCTGTCAGGGGTCCCTGGGAGAGCCATCTGC 960
 Db 2528 CAGCATCTCAGACCTTCTTCCAGTCTGTCAGGGGTCCCTGGGAGAGCCATCTGC 2587
 QY 961 CAACCAAGTGCCTACTATATCAACAGAGACTCAACCAACTGTGGGACATCCCA 1020
 Db 2588 CAACCAAGTGCCTACTATATCAACAGAGACTCAACCAACTGTGGGACATCCCA 2647
 QY 1021 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGATTAATGTCAGATTCTCAGCTTATA 1080
 Db 2648 AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGATTAATGTCAGATTCTCAGCTTATA 2707
 QY 1081 GGACTGSCATGAATCTCCGAGACTGACAGAGGCCCTTGTGCTGATCTCTTGAGCCTGT 1140
 Db 2708 GGACTGSCATGAATCTCCGAGACTGACAGAGGCCCTTGTGCTGATCTCTTGAGCCTGT 2767
 QY 1141 CAGCTGATGTGATGCTTGGACAGACCAACTCAAGCAAAATGACAGCCCATGATA 1200
 Db 2768 CAGCTGATGTGATGCTTGGACAGACCAACTCAAGCAAAATGACAGCCCATGATA 2827
 QY 1201 TCCTGCAAGATTATTAATGTTTACCACTATTATGACCGCCTGGAGCAAGACAAACA 1260
 Db 2828 TCCTGCAAGATTATTAATGTTTACCACTATTATGACCGCCTGGAGCAAGACAAACA 2887
 QY 1261 ATTGTCACAGTCCCTCTGCGGTGATATGTCTGAACCTGGCTGCTGAATGTTTATG 1320
 Db 2888 ATTGTCACAGTCCCTCTGCGGTGATATGTCTGAACCTGGCTGCTGAATGTTTATG 2947
 QY 1321 ATACGGAGCAAGAGGAGATCCGTCTGTCTTTAAACTGGCATATTTCCCTGT 1380
 Db 2948 ATACGGAGCAAGAGGAGATCCGTCTGTCTTTAAACTGGCATATTTCCCTGT 3007
 QY 1381 GTAAGCAGATTGAGAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAG 1440
 Db 3008 GTAAGCAGATTGAGAGACAAGTACAGATACCTTTCAAGCAAGTGGCAAGTTCAACAG 3067
 QY 1441 GATTTTGTGACAGGAGGAGGCTGGGCTCTCTTCTGATGATTTCTATCCAAATTCAGAGC 1500
 Db 3068 GATTTTGTGACAGGAGGAGGCTGGGCTCTCTTCTGATGATTTCTATCCAAATTCAGAGC 3127
 QY 1501 A 1501
 Db 3128 A 3128

Db 3191 TGGAAAGTTCCGATGATGACAGTCTCTGTAAACAAAGACGTTTGATTAACATGAATTCGAAGT 3250
QY 301 GGAGGAACTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACC 360
Db 3251 GGAGGAACTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACC 3310
QY 361 AGTGAAGCGTCTGACCTTTCTCTGACAGAACTTCTGTGTGCTCTCAGCTGAAGAATG 420
Db 3311 AGTGAAGCGTCTGACCTTTCTCTGACAGAACTTCTGTGTGCTCTCAGCTGAAGAATG 3370
QY 421 ATGAATTAAAGCCGAGACACCTTATTTGAGGCGACTTTCCAGCAAGTTCAAGAGCAAGC 480
Db 3371 ATGAATTAAAGCCGAGACACCTTATTTGAGGCGACTTTCCAGCAAGTTCAAGAGCAAGC 3430
QY 481 ATGTACATAGGCGCTTCAAGAGGAAATTGAAACCTTAAGAACTGTATATAGTACTC 540
Db 3431 ATGTACATAGGCGCTTCAAGAGGAAATTGAAACCTTAAGAACTGTATATAGTACTC 3490
QY 541 TTGAGACTGTACGAATTTTCTGACAGACAGCCTTTGAAAGACTAGAAACTCTACC 600
Db 3491 TTGAGACTGTACGAATTTTCTGACAGACAGCCTTTGAAAGACTAGAAACTCTACC 3550
QY 601 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCAGATGTCTCGCTTCTACGA 660
Db 3551 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCAGATGTCTCGCTTCTACGA 3610
QY 661 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACCTGCACTCGCTGATGAGC 720
Db 3611 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACCTGCACTCGCTGATGAGC 3670
QY 721 AGAAAAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGCCAGATGAGC 780
Db 3671 AGAAAAAATAGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGCCAGATGAGC 3730
QY 781 TGAAGCTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTGCGAGCCGCTGGCGATC 840
Db 3731 TGAAGCTCAAGCTGCGCCAAAGCTGAGGTATCAAGGATCTGCGAGCCGCTGGCGATC 3790
QY 841 TCTCATTAAGTCTCTCCAAAGATCACTGAGAAAGTCAAGCACTTGAGAGAAATG 900
Db 3791 TCTCATTAAGTCTCTCTCCAAAGATCACTGAGAAAGTCAAGCACTTGAGAGAAATG 3850
QY 901 CGCTCTGAAAGAAAGTGAAGCAAGTCAATGACCTTGCTGCGAGCTTCACTTTG 960
Db 3851 CGCTCTGAAAGAAAGTGAAGCAAGTCAATGACCTTGCTGCGAGCTTCACTTTG 3910
QY 961 GGAATCAGCTCTCAAGCTTAACTCTGAGCACTTGTGAAGACTGAACCAAGATGAGC 1020
Db 3911 GGAATCAGCTCTCAAGCTTAACTCTGAGCACTTGTGAAGACTGAACCAAGATGAGC 3970
QY 1021 TTCTCAGGTGCGCTGAGAGCCAGTCAAGAGCTGAGAAAGCCCAAGGACTTTG 1080
Db 3971 TTCTCAGGTGCGCTGAGAGCCAGTCAAGAGCTGAGAAAGCCCAAGGACTTTG 4030
QY 1081 GTCCAGCATCTCAGACATTTCTTTCACAGTGTCTCAGAGTCCCTGGAGAGAGCCATC 1140
Db 4031 GTCCAGCATCTCAGACATTTCTTTCACAGTGTCTCAGAGTCCCTGGAGAGAGCCATC 4090
QY 1141 CGCCAAACAAAGTGCCTACTATATCAACCAAGAGCTCAAAACAATTGCTGGAGCATC 1200
Db 4091 CGCCAAACAAAGTGCCTACTATATCAACCAAGAGCTCAAAACAATTGCTGGAGCATC 4150
QY 1201 CCAAAATGACAGAGCTTACAGATCTTTAGCTGACCTGAATTAATGTCAGATCTCAGCTT 1260
Db 4151 CCAAAATGACAGAGCTTACAGATCTTTAGCTGACCTGAATTAATGTCAGATCTCAGCTT 4210
QY 1261 ATAGAGCTGACATGAACTCCAGAGACTGAGAAAGGCGCTTTGTTGATCTTGAAGC 1320
Db 4211 ATAGAGCTGACATGAACTCCAGAGACTGAGAAAGGCGCTTTGTTGATCTTGAAGC 4270
QY 1321 TGTACAGTGTGATGCTTGGAGCAGCAAACTCAAGCAAAATGACCAAGCATG 1380
Db 4271 TGTACAGTGTGATGCTTGGAGCAGCAAACTCAAGCAAAATGACCAAGCATG 4330

QY 1381 ATATCTGAGATTTATTTGACACATTTTATGACCGCTGAGACAGACACA 1440
Db 4331 ATATCTGAGATTTATTTATTTGACACATTTTATGACCGCTGAGACAGACACA 4390
QY 1441 ACAATTTGGTCAACGCTCTCTGCTGCTGATATGTCGTGAATGTT 1500
Db 4391 ACAATTTGGTCAACGCTCTCTGCTGCTGATATGTCGTGAATGTT 4450
QY 1501 A 1501
Db 4451 A 4451

RESULT 2
US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11C81
; NAME/KEY: unsure
; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60

Query Match 99.9%; Score 1499.4; DB 3; Length 13977;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATGATTAATCTGCAAGTCCCGCTGAGCTGAAAAAGTTTCTGCTGCTTA 60
Db 8265 AAATCATGATTAATCTGCAAGTCCCGCTGAGCTGAAAAAGTTTCTGCTGCTTA 8324
QY 61 CAGAGCTGAACAACCTGCAATGTCCTACAGATGCTAACCGTAAAGAAAGCTCTAG 120
Db 8325 CAGAGCTGAACAACCTGCAATGTCCTACAGATGCTAACCGTAAAGAAAGCTCTAG 8384
QY 121 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGCGAAGACTCCAAAGTGAATG 180
Db 8385 AAGACTCCAAGGAGTAAAGAGCTGATGAACAATGCGAAGACTCCAAAGTGAATG 8444
QY 181 AAGCTCACAGATGTTATCAACCTGATGAAAAAGCAAGCAAAATCTGAGATCC 240
Db 8445 AAGCTCACAGATGTTATCAACCTGATGAAAAAGCAAGCAAAATCTGAGATCC 8504
QY 241 TGAAGGTTCCGATGATGCAATCTCTGTTACAAAGCTTTGATGATGAATCTCAAGT 300
Db 8505 TGAAGGTTCCGATGATGCAATCTCTGTTACAAAGCTTTGATGATGAATCTCAAGT 8564
QY 301 GGAGTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTCTGACC 360
Db 8565 GGAGTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTCTGACC 8624
QY 361 AGTGAAGCGTCTGACCTTTCTCTGACAGAACTTCTGTGTGCTCTCAGCTGAAGAATG 420
Db 8625 AGTGAAGCGTCTGACCTTTCTCTGACAGAACTTCTGTGTGCTCTCAGCTGAAGAATG 8684
QY 421 ATGAATTAAAGCCGAGACACCTTATTTGAGGCGACTTTCCAGCAAGTTCAAGAGCAAGC 480

Db 8685 ATGATTTAAGCCGACGACCTTATGAGGCGACTTCCAGGACTTCAGAAAGCAGAAGC 8744
 Qy 481 ATGATTTAAGGCGCTTCAAGAGGGAATTTGAAACCTTATATCTAGTACTC 540
 Db 8745 ATGATTTAAGGCGCTTCAAGAGGGAATTTGAAACCTTATATCTAGTACTC 8804
 Qy 541 TTGAGACTGATGAGATTTTCTGACAGAGCGCTTTGGAAGGACTGAGAACTTACC 600
 Db 8805 TTGAGACTGATGAGATTTTCTGACAGAGCGCTTTGGAAGGACTGAGAACTTACC 8864
 Qy 601 AGAGGCCAGAGAGCTCTCTGAGAGAGAGCCAGAAATGTCATCTCGCTTACGAA 660
 Db 8865 AGAGGCCAGAGAGCTCTCTGAGAGAGAGCCAGAAATGTCATCTCGCTTACGAA 8924
 Qy 661 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATGAACTCTGCTGCTGAGC 720
 Db 8925 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATGAACTCTGCTGCTGAGC 8984
 Qy 721 AGGAAAAATGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGGCGAGATGAGC 780
 Db 8985 AGGAAAAATGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGGCGAGATGAGC 9044
 Qy 781 TGAACCTCAAGCTGCGCAAGCTGAGTCAAGAGGATCTGCGACGCGTGGCGATC 840
 Db 9045 TGAACCTCAAGCTGCGCAAGCTGAGTCAAGAGGATCTGCGACGCGTGGCGATC 9104
 Qy 841 TCTCATTTAGCTCTCTCCAGATCACTCGAAGAAATGCAAGGCACTTGAAGAAATTG 900
 Db 9105 TCTCATTTAGCTCTCTCCAGATCACTCGAAGAAATGCAAGGCACTTGAAGAAATTG 9164
 Qy 901 CGCTCTGAAAGAGAGTGAAGGCAAGTCAATGAGCTTGGCTGGCAGTTTCACTTTGG 960
 Db 9165 CGCTCTGAAAGAGAGTGAAGGCAAGTCAATGAGCTTGGCTGGCAGTTTCACTTTGG 9224
 Qy 961 GCATTCAAGCTCTCAAGCTGATCACTGAGCACTTGAAGAACTTGAACACAGATGAGAGC 1020
 Db 9225 GCATTCAAGCTCTCAAGCTGATCACTGAGCACTTGAAGAACTTGAACACAGATGAGAGC 9284
 Qy 1021 TTCTGAGTGGGCGCTGAGAGAGCGAGTCAAGGCAAGCTGATGAAGCCCAAGGACTTTG 1080
 Db 9285 TTCTGAGTGGGCGCTGAGAGAGCGAGTCAAGGCAAGCTGATGAAGCCCAAGGACTTTG 9344
 Qy 1081 GTCCAGATCTCAGACCTTTTCCAGCTGTCAGAGGCTCCCTGGGAGAGAGCAATCT 1140
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 Db 9405 CGCCAAACAAAGTGCCTACTATATCAACACAGAGACTCAAAACAATCTGCTGGGACATC 9464
 Qy 1201 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAGATTTTCAGCTT 1260
 Db 9465 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGTCAGATTTTCAGCTT 9524
 Qy 1261 ATAGAGCTGCGATGAACTCCGAAAGCTGAGAAAGGCGCTTTGCTTGAATCTCTTGAAGC 1320
 Db 9525 ATAGAGCTGCGATGAACTCCGAAAGCTGAGAAAGGCGCTTTGCTTGAATCTCTTGAAGC 9584
 Qy 1321 TGTGAGCTGATGAGTCTTGGACAGCAAACTCAAGCAAAATGACAGAGCCCATGG 1380
 Db 9585 TGTGAGCTGATGAGTCTTGGACAGCAAACTCAAGCAAAATGACAGAGCCCATGG 9644
 Qy 1381 ATATCTGCGAGATTAATTAATTTTGAACCACTATTTATGACCGCTGAGAGAGAGACA 1440
 Db 9645 ATATCTGCGAGATTAATTAATTTTGAACCACTATTTATGACCGCTGAGAGAGAGACA 9704
 Qy 1441 ACAATTTGATGAGTCTCTGCTGCTGAGATATGTCATGAACCTGCTGCTGAAATGTTT 1500
 Db 9705 ACAATTTGATGAGTCTCTGCTGCTGAGATATGTCATGAACCTGCTGCTGAAATGTTT 9764
 Qy 1501 A 1501

Db 9765 A 9765
 RESULT 3
 US-09-949-016-2804
 ; Sequence 2804, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: C4001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; PRIOR FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: ParseSeq for Windows Version 4.0
 ; SEQ ID NO 2804
 ; LENGTH: 7070
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-016-2804

Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AGACTCATAGATTCTGCAACAGTTCCCGCTGAGCTGGAAGAAAGTTCTGCTGCTTAA 60
 Db 1445 AAATCTCATAGATTCTGCAACAGTTCCCGCTGAGCTGGAAGAAAGTTCTGCTGCTTAA 1504
 Qy 61 CAGAGCTGAAACCAATGCGCAATGCTCTACAGATGCTACCCGTAAGAAAGGCTCTAG 120
 Db 1505 CAGAGCTGAAACCAATGCGCAATGCTCTACAGATGCTACCCGTAAGAAAGGCTCTAG 1564
 Qy 121 AAGACTCCAGAGGATGAAGAGCTGATGAACCAATGCAAGACTCCAAAGTGAATTG 180
 Db 1565 AAGACTCCAGAGGATGAAGAGCTGATGAACCAATGCAAGACTCCAAAGTGAATTG 1624
 Qy 181 AAGCTCACAGAGTTTATCAACAACCTGATGAGAAACAGCCAAATAATCCAGATCC 240
 Db 1625 AAGCTCACAGAGTTTATCAACAACCTGATGAGAAACAGCCAAATAATCCAGATCC 1684
 Qy 241 TGAAGGTTCCGATGATGCACTCTGTTTACAAAGCTTGGATTAACATGAATTTCAAGT 300
 Db 1685 TGAAGGTTCCGATGATGCACTCTGTTTACAAAGCTTGGATTAACATGAATTTCAAGT 1744
 Qy 301 GGAAGTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCATTGGAGCCAGTTCTGACC 360
 Db 1745 GGAAGTGAACCTTGGAAAAAGTCTCTCAACATTAAGTCCATTGGAGCCAGTTCTGACC 1804
 Qy 361 AGTGAAGGCTCTGCACTTTCTCTGCAAGAACTTGGTGGTGGCTACAGCTGAAAGATG 420
 Db 1805 AGTGAAGGCTCTGCACTTTCTCTGCAAGAACTTGGTGGTGGCTACAGCTGAAAGATG 1864
 Qy 421 ATGAATTAAGCGGACAGGACCTAATTTGAGAGGCACTTTCAGAGATTGAGAGAGAGAG 480
 Db 1865 ATGAATTAAGCGGACAGGACCTAATTTGAGAGGCACTTTCAGAGATTGAGAGAGAGAG 1924
 Qy 481 ATGTAACATAGGCGCTTCAAGAGGGAATTTGAAACCTAAGAACTTGTATCAATGACTC 540
 Db 1925 ATGTAACATAGGCGCTTCAAGAGGGAATTTGAAACCTAAGAACTTGTATCAATGACTC 1984
 Qy 541 TTGAGACTGATGAGATTTTCTGACAGAGCGCTTTGGAAGGACTGAGAGAACTTACC 600
 Db 1985 TTGAGACTGATGAGATTTTCTGACAGAGCGCTTTGGAAGGACTGAGAGAACTTACC 2044
 Qy 601 AGAGGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCATCTCGCTTACGAA 660

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Db      2045 AGAGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGATGTCTAGGCTTCTACGAA 2104
      661 AGCAGGCTGAGAGGTCATACTGATGGGAAAAATTTGACCTGCACTCCGCTGACGCG 720
      2105 AGCAGGCTGAGAGGTCATACTGATGGGAAAAATTTGACCTGCACTCCGCTGACGCG 2164
      721 AGAGAAAAATGATGATGAGACCTTGGAAAACTCCAGAACTTCAAGAGGCCCGGATAGC 780
      2165 AGAGAAAAATGATGATGAGACCTTGGAAAACTCCGGAACCTTCAAGAGGCCCGGATAGC 2224
      781 TGAACCTCAAGCTGGGCAAGCTGATGATGATCAAGGATCTTGAGAGCCCGTGGCGATC 840
      2225 TGAACCTCAAGCTGGGCAAGCTGATGATGATCAAGGATCTTGAGAGCCCGTGGCGATC 2284
      841 TCTCATTTAGCTCTCTCCAGATCACTCCGAGAAAGTCAAGGCACTTCCGAGGAAATTTG 900
      2285 TCTCATTTAGCTCTCTCCAGATCACTCCGAGAAAGTCAAGGCACTTCCGAGGAAATTTG 2344
      901 CGCCCTGGAAGAGAGAGGTCAGGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGG 960
      2345 CGCCCTGGAAGAGAGAGGTCAGGCAAGTCAATGACCTTGTGCGCAGCTTACCACTTTGG 2404
      961 GCATTACGCTCTCAACCTATTAACCTCAGCACTCCGAGAAAGTCAAGGCACTCAATGGAAG 1020
      2405 GCATTACGCTCTCAACCTATTAACCTCAGCACTCCGAGAAAGTCAAGGCACTCAATGGAAG 2464
      1021 TTTCGAGGTGGGCGCTGAGAGACCGAGTCAGGAGCTGCAATGAAAGCCCAAGGAACTTTG 1080
      2465 TTTCGAGGTGGGCGCTGAGAGACCGAGTCAGGAGCTGCAATGAAAGCCCAAGGAACTTTG 2524
      1081 GTCCAGATCTCAGCACTTCTTCCACGCTGTCCAGGGTCCCTGGAGAGAGCCATCT 1140
      2525 GTCCAGATCTCAGCACTTCTTCCACGCTGTCCAGGGTCCCTGGAGAGAGCCATCT 2584
      1141 CGCCAAACAAAGTCCCTTACTATATCAACACGACGAGCTCAACAACTTGTGGAGCAATC 1200
      2585 CGCCAAACAAAGTCCCTTACTATATCAACACGAGACTCAACAACTTGTGGAGCAATC 2644
      1201 CCMAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATTAATGTGAGTTCTCAGCTT 1260
      2645 CCMAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATTAATGTGAGTTCTCAGCTT 2704
      1261 ATAGAGCTGCTGAAACTCCGAGAACTGACAGAAAGCCCTTGTGATCTCTTGAAGCC 1320
      2705 ATAGAGCTGCTGAAACTCCGAGAACTGACAGAAAGCCCTTGTGATCTCTTGAAGCC 2764
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      2825 ATATCTGCAATTAATTGTTTGAACCACTATTATGACCGCTGAGAGAGAGACA 2884
      1441 ACAATTTGTCAGAGTCCCTCTGCGGTGATATGTCTGAAGTGGCTGTAATGTTT 1500
      2885 ACAATTTGTCAGAGTCCCTCTGCGGTGATATGTCTGAAGTGGCTGTAATGTTT 2544
      1501 A 1501
      2945 A 2945

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RESULT 4
US-09-949-016-2805
; Sequence 2805, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307

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; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2805
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2805

Query Match      99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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      61  CAGAGCTGAAACAACTGCAATGTCCTTACAGATGCTACCGTAAAGAAAGCTCTAG 120
      1505 CAGAGCTGAAACAACTGCAATGTCCTTACAGATGCTACCGTAAAGAAAGCTCTAG 1564
      121  AAGACTCAAGAGAGTAAAGAGCTGATGAAACAAATGGAAGACCTCCAGAGTGAATTTG 180
      1565 AAGACTCAAGAGAGTAAAGAGCTGATGAAACAAATGGAAGACCTCCAGAGTGAATTTG 1624
      181  AAGCTCAACAGATGTTTATCAACACTGATGAAACAGCCAAATCTGAGATCCC 240
      1625 AAGCTCAACAGATGTTTATCAACACTGATGAAACAGCCAAATCTGAGATCCC 1684
      241  TGAAGATTCGATGATGAGTCTGTTTCAAAAGCGTTTGGATTAATGAACTTCAAGT 300
      1685 TGAAGATTCGATGATGAGTCTGTTTCAAAAGCGTTTGGATTAATGAACTTCAAGT 1744
      301  GAGGTAACTTGGAAAAAGTCTTCAACATTAGTCCATTGGAAAGCCAGTTCTGACC 360
      1745 GAGGTAACTTGGAAAAAGTCTTCAACATTAGTCCATTGGAAAGCCAGTTCTGACC 1804
      361  AGTGAAGCGTCTGACCTTCTGACAGAACTTCTGATGCTGATGCTGAAAGATG 420
      1805 AGTGAAGCGTCTGACCTTCTGACAGAACTTCTGATGCTGATGCTGAAAGATG 1864
      421  ATGAATTAAGCCGAGGACCTATTTGAGGCGAATTTCCAGAGTTCAAGAGCAGAAAG 480
      1865 ATGAATTAAGCCGAGGACCTATTTGAGGCGAATTTCCAGAGTTCAAGAGCAGAAAG 1924
      481  ATGTACATAGGCGCTTCAAGAGGGAATTTAAACTTAAGAACTGTATATGATGATCTC 540
      1925 ATGTACATAGGCGCTTCAAGAGGGAATTTAAACTTAAGAACTGTATATGATGATCTC 1984
      541  TTGAGACTGTACGAATATTTCTGACAGAGAGCTTTGGAAGAGCTGAGAAACTCTACC 600
      1985 TTGAGACTGTACGAATATTTCTGACAGAGAGCTTTGGAAGAGCTGAGAAACTCTACC 2044
      601  AGAGGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCTAGCTGCTTCTACGAA 660
      2045 AGAGGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCTAGCTGCTTCTACGAA 2104
      661  AGCAGGCTGAGAGGTCATACTGATGGGAAAAATTTGACCTGCACTCCGCTGACGCG 720
      2105 AGCAGGCTGAGAGGTCATACTGATGGGAAAAATTTGACCTGCACTCCGCTGACGCG 2164
      721  AGAGAAAAATGATGATGAGACCTTGGAAAACTCCAGAACTTCAAGAGGCCCGGATAGC 780
      2165 AGAGAAAAATGATGATGAGACCTTGGAAAACTCCGGAACCTTCAAGAGGCCCGGATAGC 2224
      781  TGAACCTCAAGCTGGGCAAGCTGATGATGATCAAGGATCTTGAGAGCCCGTGGCGATC 840

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|||||
Db 2225 TGAAGCTCAAGCTGGCGCAAGCTGAGTGAATCAAGGATCTGGAGCCCGTGGCGCATC 2284
Qy 841 TCCTCATTTGACTCTCTCCAAATGATCACTTCGAGAAAGTCAAGGACTTTGAGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAAATGATCACTTCGAGAAAGTCAAGGACTTTGAGAGAAATTG 2344
Qy 901 CGCCTCTGAAGAAGAACGAGAGCCAGTCAATGACTTGTGCTGGCAGCTTACCATTTGG 960
Db 2345 CGCCTCTGAAGAAGAACGAGAGCCAGTCAATGACTTGTGCTGGCAGCTTACCATTTGG 2404
Qy 961 GCATTGACCTCTCAACCGTATAAAGCTCAGACACTTGAAGACCTGAAACACAGATGAAAGC 1020
Db 2405 GCATTGACCTCTCAACCGTATAAAGCTCAGACACTTGAAGACCTGAAACACAGATGAAAGC 2464
Qy 1021 TTCCTGCAAGTGGCCGTGAGAGACCGAGTCAAGGACTGATGAAAGCCCAAGGACTTTG 1080
Db 2465 TTCCTGCAAGTGGCCGTGAGAGACCGAGTCAAGGACTGATGAAAGCCCAAGGACTTTG 2524
Qy 1081 GTCCAGCATCTCAGACACTTCTTCCAGAGTCTGTCCAGGGTCCCTGGGAGAGAGCATCT 1140
Db 2525 GTCCAGCATCTCAGACACTTCTTCCAGAGTCTGTCCAGGGTCCCTGGGAGAGAGCATCT 2584
Qy 1141 CGCCAAACAAAGTGGCCCTACTATATCAACCAAGAGACTCAACAACTTGTGGAGCATC 1200
Db 2585 CGCCAAACAAAGTGGCCCTACTATATCAACCAAGAGACTCAACAACTTGTGGAGCATC 2644
Qy 1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGTCAAGTCAATATATGTCAGATTTCTAGCTT 1260
Db 2645 CCAAAATGACAGAGCTCTACCAAGTCTTTAGTCAAGTCAATATATGTCAGATTTCTAGCTT 2704
Qy 1261 ATAGGACTGCGCATGAAACCTCCGAAAGACTGCAAGAAAGCCCTTGTGATCTCTGAGCC 1320
Db 2705 ATAGGACTGCGCATGAAACCTCCGAAAGACTGCAAGAAAGCCCTTGTGATCTCTGAGCC 2764
Qy 1321 TGTGAGCTGATGATGATCCTTGGACAGACCAACCTCAAGCAAAATGACAGCCCATGG 1380
Db 2765 TGTGAGCTGATGATGATCCTTGGACAGACCAACCTCAAGCAAAATGACAGCCCATGG 2824
Qy 1381 ATATCTGCGAGATTATTAATGTTTGAACCACTAATTTATGACCGCTCGAGCAAGGACA 1440
Db 2825 ATATCTGCGAGATTATTAATGTTTGAACCACTAATTTATGACCGCTCGAGCAAGGACA 2884
Qy 1441 ACAATTTGCTCAAGCTCCCTCTGCGGTGATGATGCTGAACCTGGCTGCAATGTTT 1500
Db 2885 ACAATTTGCTCAAGCTCCCTCTGCGGTGATGATGCTGAACCTGGCTGCAATGTTT 2944
Qy 1501 A 1501
Db 2945 A 2945

RESULT 5
US-09-949-016-2806
; Sequence 2806, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2806
; LENGTH: 7070

TYPE: DNA
; ORGANISM: Human
US-09-949-016-2806
Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
Beet Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 AGACTCAGATGATTTACTGCAAGATTTCCCTGAGACCTGAGAAAGTTTCTTGCTGGCTTA 60
Db 1445 AAATCATGATTTACTGCAAGATTTCCCTGAGACCTGAGAAAGTTTCTTGCTGGCTTA 1504
Qy 61 CAGAACTGAAACCACTGCAATGCTTACAGATGCTTACAGATGCTTACAGATGCTTACAG 120
Db 1505 CAGAACTGAAACCACTGCAATGCTTACAGATGCTTACAGATGCTTACAGATGCTTACAG 1564
Qy 121 AAGACTCAGAGAGTAAAGAGTGAATGAAACCAATGCAAGACCTTCAAGTGAATTTG 180
Db 1565 AAGACTCAGAGAGTAAAGAGTGAATGAAACCAATGCAAGACCTTCAAGTGAATTTG 1624
Qy 181 AAGCTCAGACAGATGTTTATCAACACCTGATGAAACAGGCCAAATAATCCTGAGATCCC 240
Db 1625 AAGCTCAGACAGATGTTTATCAACACCTGATGAAACAGGCCAAATAATCCTGAGATCCC 1684
Qy 241 TGAAGGTTCCGATGATGACAGTCTGTTACAAAGAGCTTTGGATTAACATGAACCTTCAAGT 300
Db 1685 TGAAGGTTCCGATGATGACAGTCTGTTACAAAGAGCTTTGGATTAACATGAACCTTCAAGT 1744
Qy 301 GGAAGTAACTTCGAAAGAGTCTCAACATTAAGTCCATTTGGAAGCCAGTTCTGACC 360
Db 1745 GGAAGTAACTTCGAAAGAGTCTCAACATTAAGTCCATTTGGAAGCCAGTTCTGACC 1804
Qy 361 AGTGAAGAGCTGTGACACTTCTGCGAGAGAACTTCTGCTGAGTGAAGTGAAGTGAAGT 420
Db 1805 AGTGAAGAGCTGTGACACTTCTGCGAGAGAACTTCTGCTGAGTGAAGTGAAGTGAAGT 1864
Qy 421 ATGAATTAAGCCGAGGACCACTAATGAGGAGCACTTTCAGACATTTGAGAGAGAGAG 480
Db 1865 ATGAATTAAGCCGAGGACCACTAATGAGGAGCACTTTCAGACATTTGAGAGAGAGAG 1924
Qy 481 ATGTAATAGGAGCTTCAAGAGAGGAAATGAAACCTAAGAACTGTAATCATGAGTACTC 540
Db 1925 ATGTAATAGGAGCTTCAAGAGAGGAAATGAAACCTAAGAACTGTAATCATGAGTACTC 1984
Qy 541 TTGAGACTGTACGAATTTTCTGACAGAGCAAGCTTTGAGAGAGTGAAGAACTCTACC 600
Db 1985 TTGAGACTGTACGAATTTTCTGACAGAGCAAGCTTTGAGAGAGTGAAGAACTCTACC 2044
Qy 601 AGAGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCAGTCTGCTTACAGAA 660
Db 2045 AGAGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCAGTCTGCTTACAGAA 2104
Qy 661 AGAGAGCTGAGAGAGTCAATATCTGAGTGGGAAATTTGAACCTGCACTCCGCTGACTG 720
Db 2105 AGAGAGCTGAGAGAGTCAATATCTGAGTGGGAAATTTGAACCTGCACTCCGCTGACTG 2164
Qy 721 AGAGAAATTAATGATGAGACCTTGAAGAACTCCAGAACTTCAAGAGGAGCCAGATGAGC 780
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Qy 781 TGAAGCTCAAGCTGAGCAAGCTGAGTGAATCAAGAGGATCTGTGAGAGCCGCTGGCGATC 840
Db 2225 TGAAGCTCAAGCTGAGCAAGCTGAGTGAATCAAGAGGATCTGTGAGAGCCGCTGGCGATC 2284
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Qy 901 CGCCTCTGAAGAAGAACGAGAGCCAGTCAATGACTTGTGCTGGCAGCTTACCATTTGG 960
Db 2345 CGCCTCTGAAGAAGAACGAGAGCCAGTCAATGACTTGTGCTGGCAGCTTACCATTTGG 2404
Qy 961 GCATTGACCTCTCAACCGTATAAAGCTCAGACACTTGAAGACCTGAAACACAGATGAAAGC 1020

Db 2405 GCATTGAGCTCTCAACCCCTATTAACCTCAGCACTCGAAGACCTGAACCAACGATGAGC 2464
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Db 2465 TTTCGACAGTGGCCGTGAGAGACCGAATCGAGCGCTGCAATGAACCCACAGGACTTTG 2524
Qy 1081 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGCTCCAGGGTCCCTGGAGAGAGCCATCT 1140
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Qy 1141 CGCAAAACAAGGCCCTACTATATATCAACCAAGACTCAACAACTTGTGGAGCCATC 1200
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Qy 1201 CCAAAATGACAGAGCTCTACAGCTCTTGTAGCTGACCTGAATATATGCAATTCAGCTT 1260
Db 2645 CCAAAATGACAGAGCTCTACAGCTCTTGTAGCTGACCTGAATATATGCAATTCAGCTT 2704
Qy 1261 ATAGGACTGCGATGAACCTCCGAAAGCTGAGAGAGGCCCTTGTGCTGATCTCTTGAGCC 1320
Db 2705 ATAGGACTGCGATGAACCTCCGAAAGCTGAGAGAGGCCCTTGTGCTGATCTCTTGAGCC 2764
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Qy 1441 ACAATTGTGCAACGCCCTCTGCTGGTGAATATGTGTCTGAACCTGGCTGTAATGTTT 1500
Db 2885 ACAATTGTGCAACGCCCTCTGCTGGTGAATATGTGTCTGAACCTGGCTGTAATGTTT 2944
Qy 1501 A 1501
Db 2945 A 2945

RESULT 6

US-09-949-016-2807
/ Sequence 2807, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: C1001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2807
/ LENGTH: 7070
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-2807

Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AGACTCATAGATTACTGCAACAGTCCCTGAGACCTGAGAAAGTTCTTGGCTGCTTA 60
Db 1445 AAACCTCATAGATTACTGCAACAGTCCCTGAGACCTGAGAAAGTTCTTGGCTGCTTA 1504

Qy 61 CAGAACTGAAACAACTGCCAATGTCTTACAGATGCTTACCCTGAAGAAAGGCTCTAG 120
Db 1505 CAGAACTGAAACAACTGCCAATGTCTTACAGATGCTTACCCTGAAGAAAGGCTCTAG 1564
Qy 121 AAGACTCCAAAGGAGATTAAGAGCTGATGAACCAATGGCAAGACTCCAGGTGAATTG 180
Db 1565 AAGACTCCAAAGGAGATTAAGAGCTGATGAACCAATGGCAAGACTCCAGGTGAATTG 1624
Qy 181 AAGCTCACACAGATGTTTATCAACACTGATGAAAAAGCCAAATAATCTGAGATCCC 240
Db 1625 AAGCTCACACAGATGTTTATCAACACTGATGAAAAAGCCAAATAATCTGAGATCCC 1684
Qy 241 TGGAAAGTTCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
Db 1685 TGGAAAGTTCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1744
Qy 301 GGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAAGTCCCAATTGGAGCCAGTTCGACC 360
Db 1745 GGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAAGTCCCAATTGGAGCCAGTTCGACC 1804
Qy 361 AGTGAAGCGTCTGACCTTTCTCTGAGAGAACTTGTGTGTGCTTACAGTGAAGATG 420
Db 1805 AGTGAAGCGTCTGACCTTTCTCTGAGAGAACTTGTGTGTGCTTACAGTGAAGATG 1864
Qy 421 ATGAATTAAAGCCGAGAGCACTATTGGAAGCGACTTTCAGAGATTCAGAGACAGAAAG 480
Db 1865 ATGAATTAAAGCCGAGAGCACTATTGGAAGCGACTTTCAGAGATTCAGAGACAGAAAG 1924
Qy 481 ATGTACATTAAGGCTCTTCAAGAGGAAATTGAAACCTAAGAACTGTATCATGATGACTC 540
Db 1925 ATGTACATTAAGGCTCTTCAAGAGGAAATTGAAACCTAAGAACTGTATCATGATGACTC 1984
Qy 541 TTGAGACTGTAAGAAATTTCTGACAGAGAGCTTTGGAAGGACTGAGAAACCTTACCC 600
Db 1985 TTGAGACTGTAAGAAATTTCTGACAGAGAGCTTTGGAAGGACTGAGAAACCTTACCC 2044
Qy 601 AGAAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGATGCTCATCGGCTTTTACGAA 660
Db 2045 AGAAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGATGCTCATCGGCTTTTACGAA 2104
Qy 661 AGCAGCTGAGAGGTCATATCTGATGAGAAATTTGAACCTGCACTCGCTGACTGAC 720
Db 2105 AGCAGCTGAGAGGTCATATCTGATGAGAAATTTGAACCTGCACTCGCTGACTGAC 2164
Qy 721 AGAGAAAAATAGATGAGACCTTTGAAAGACTCGAAGAACTTCAAGAGGCAAGATGAGC 780
Db 2165 AGAGAAAAATAGATGAGACCTTTGAAAGACTCGAAGAACTTCAAGAGGCAAGATGAGC 2224
Qy 781 TGAACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCTGGAGGCCGCTGGCGATC 840
Db 2225 TGAACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCTGGAGGCCGCTGGCGATC 2284
Qy 841 TCCCTATTGACTCTCTCCAAAGTCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTG 900
Db 2285 TCCCTATTGACTCTCTCCAAAGTCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTG 960
Qy 901 CGCCTCTGAAAGAGAGCTGAGCCAGCTCAATGACCTTGTGCGCAGCTTCACTTTGG 960
Db 2345 CGCCTCTGAAAGAGAGCTGAGCCAGCTCAATGACCTTGTGCGCAGCTTCACTTTGG 2404
Qy 961 GGATTCAGCTCTCAGCGTATTAACCTCAGACCTCTGGAAGACTGAACCAAGATGAGAGC 1020
Db 2405 GGATTCAGCTCTCAGCGTATTAACCTCAGACCTCTGGAAGACTGAACCAAGATGAGAGC 2464
Qy 1021 TTTCGACAGTGGCCGTGAGAGACCGAATCGAGCGCTGCAATGAACCCACAGGACTTTG 1080
Db 2465 TTTCGACAGTGGCCGTGAGAGACCGAATCGAGCGCTGCAATGAACCCACAGGACTTTG 2524
Qy 1081 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGCTCCAGGGTCCCTGGAGAGAGCCATCT 1140
Db 2525 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTGCTCCAGGGTCCCTGGAGAGAGCCATCT 2584
Qy 1141 CGCAAAACAAGGCCCTACTATATATCAACCAAGACTCAACAACTTGTGGAGCCATC 1200

Db 2585 CGCCAAAGAGTGGCCCTATATCAACCAAGACTCAAACTTGCGGACCATC 2644
Qy 1201 CCAAAATGACGAGCTCTACCAAGCTTTAGCTGACCTGAAATATGTCAGATTTCTAGCTT 1260
Db 2645 CCAAAATGACGAGCTCTACCAAGCTTTAGCTGACCTGAAATATGTCAGATTTCTAGCTT 2704
Qy 1261 ATAGAGCTGCGCATGAACTCCGAGAGACTGCAAGAGGCCCTTTGCTTGATCTCTGAGCC 1320
Db 2705 ATAGAGCTGCGCATGAACTCCGAGAGACTGCAAGAGGCCCTTTGCTTGATCTCTGAGCC 2764
Qy 1321 TGTGAGCTGACGTGATGCTCTTGACCAAGCAAACTTCAGCAAAATGACCAAGCCCATG 1380
Db 2765 TGTGAGCTGACGTGATGCTCTTGACCAAGCAAACTTCAGCAAAATGACCAAGCCCATG 2824
Qy 1381 ATATCTGCGACATTTATTTATTTGTCACCACTATTTATGACCGCTGAGCAAGCA 1440
Db 2825 ATATCTGCGACATTTATTTATTTGTCACCACTATTTATGACCGCTGAGCAAGCA 2884
Qy 1441 ACAATTTGGTCAAGCTCCCTCTGCGCTGATGATGTCGAACTGGCTGATGATGTT 1500
Db 2885 ACAATTTGGTCAAGCTCCCTCTCTGCGCTGATGATGTCGAACTGGCTGATGATGTT 2944
Qy 1501 A 1501
Db 2945 A 2945

RESULT 7
US-09-949-016-2808
; Sequence 2808, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2808
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2808

Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AGACTCATAGATTACTGCAACAGTTCCCTCTGACCTGAAAGTTTCTTGCTGGCTTTA 60
Db 1445 AAACCTCATAGATTACTGCAACAGTTCCCTCTGACCTGAAAGTTTCTTGCTGGCTTTA 1504
Qy 61 CAGAAAGCTGAAACCAATGCTGCAAGAGTGTCTTACAGAGGCTTACCTGAAAGGCTCCCTAG 120
Db 1505 CAGAAAGCTGAAACCAATGCTGCAAGAGTGTCTTACAGAGGCTTACCTGAAAGGCTCCCTAG 1564
Qy 121 AAGACTCAAGAGAGTAAAGAGCTGATGAAACCAATGCAAGAGCTCCAAAGGTGAATTTG 180
Db 1565 AAGACTCAAGAGAGTAAAGAGCTGATGAAACCAATGCAAGAGCTCCAAAGGTGAATTTG 1624
Qy 181 AAGCTCACACAGATTTTATCAACACTGATGAAACCAAGCAAAATATCTGAGATCCC 240
Db 1625 AAGCTCACACAGATTTTATCAACACTGATGAAACCAAGCAAAATATCTGAGATCCC 1684

Qy 241 TGAAGGTTCCGATGATGACAGTCTCTTTACAAAGCGTTTGGATPACTGAATCTTAAGT 300
Db 1685 TGAAGGTTCCGATGATGACAGTCTCTTTACAAAGCGTTTGGATPACTGAATCTTAAGT 1744
Qy 301 GGAAGTAACTTGGAAAAAGTCTCTCAACATTTAGTCCCATTTTGGAAAGCCAGTTCTGACC 360
Db 1745 GGAAGTAACTTGGAAAAAGTCTCTCAACATTTAGTCCCATTTTGGAAAGCCAGTTCTGACC 1804
Qy 361 AGTGAAGCGTCTGACCTTTCTCTGAGAGAACTTGTGTGTGCTACAGCTGAAAGATG 420
Db 1805 AGTGAAGCGTCTGACCTTTCTCTGAGAGAACTTGTGTGTGCTACAGCTGAAAGATG 1864
Qy 421 ATGAATTAAGCCGAGAGCACTTAATTGAGGCGACTTTCAGAGTTTCAGAGCAAGAACG 480
Db 1865 ATGAATTAAGCCGAGAGCACTTAATTGAGGCGACTTTCAGAGTTTCAGAGCAAGAACG 1924
Qy 481 ATGTACATAGGGCTTTCAAGAGGGAATTGAAACTTAAAGAACTGTATCTAGATCTC 540
Db 1925 ATGTACATAGGGCTTTCAAGAGGGAATTGAAACTTAAAGAACTGTATCTAGATCTC 1984
Qy 541 TTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGACTAGAGAACTCTACC 600
Db 1985 TTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGACTAGAGAACTCTACC 2044
Qy 601 AGAGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTTGAGCTTTACGAA 660
Db 2045 AGAGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTTGAGCTTTACGAA 2104
Qy 661 AGCAGGCTGAGAGAGTCAATCTGATGAGGAAAAATGAACTTGACCTTGACCTGCTGAC 720
Db 2105 AGCAGGCTGAGAGAGTCAATCTGATGAGGAAAAATGAACTTGACCTTGACCTGCTGAC 2164
Qy 721 AGAGAAAAATGATGAGAGCCCTTGAAGAGCTCCAGGAACTTCAAGAGGCCAGAGTAGG 780
Db 2165 AGAGAAAAATGATGAGAGCCCTTGAAGAGCTCCAGGAACTTCAAGAGGCCAGAGTAGG 2224
Qy 781 TGAACCTCAAGCTGCGCCAGCTGAGTGAATCAAGAGGATCTTGAGAGCCGCTGAGGCGATC 840
Db 2225 TGAACCTCAAGCTGCGCCAGCTGAGTGAATCAAGAGGATCTTGAGAGCCGCTGAGGCGATC 2284
Qy 841 TCTCTATTGACTCTCTCCAAATCACTCTGAGAAAGTAAAGGCACTTGAAGAGAAATTTG 900
Db 2285 TCTCTATTGACTCTCTCCAAATCACTCTGAGAAAGTAAAGGCACTTGAAGAGAAATTTG 2344
Qy 901 CGCCTTGAAGAGAGAGTGAAGCCAGTCAATGACCTTGCTGCGAGCTTCACTTTGG 960
Db 2345 CGCCTTGAAGAGAGAGTGAAGCCAGTCAATGACCTTGCTGCGAGCTTCACTTTGG 2404
Qy 961 GCATTGAGCTCTCAACCTGATTAACCTCAGCACTCTGAAAGACTGAAACACAGATGGAAGC 1020
Db 2405 GCATTGAGCTCTCAACCTGATTAACCTCAGCACTCTGAAAGACTGAAACACAGATGGAAGC 2464
Qy 1021 TTCTGACAGTGGCGCTGAGAGCCGAGTCAAGAGCTGATGAAGCCCAAGGACTTTTG 1080
Db 2465 TTCTGACAGTGGCGCTGAGAGCCGAGTCAAGAGCTGATGAAGCCCAAGGACTTTTG 2524
Qy 1081 GTCCAGCATCTCAGACATTTCTTTTCCAGTGTCTGTCAGAGGTCCTCTGGAGAGAGCATCT 1140
Db 2525 GTCCAGCATCTCAGACATTTCTTTTCCAGTGTCTGTCAGAGGTCCTCTGGAGAGAGCATCT 2584
Qy 1141 CGCCAAACAAAGTGGCCCTACTATATCAACACAGAGACTCAACAACTTGCTGGAGCATC 1200
Db 2585 CGCCAAACAAAGTGGCCCTACTATATCAACACAGAGACTCAACAACTTGCTGGAGCATC 2644
Qy 1201 CCAAAATGACAGAGCTTACAGAGTCTTTAGCTGACCTGAAATATGTCAGATTTCTAGCTT 1260
Db 2645 CCAAAATGACAGAGCTTACAGAGTCTTTAGCTGACCTGAAATATGTCAGATTTCTAGCTT 2704
Qy 1261 ATAGAGCTGCGCATGAAATCTCGAAGACTGCAAGAGGCCCTTTGCTGATGATCTCTTGAAGCC 1320
Db 2705 ATAGAGCTGCGCATGAAATCTCGAAGACTGCAAGAGGCCCTTTGCTGATGATCTCTTGAAGCC 2764
Qy 1321 TGTGAGCTGACGTGATGCTTGTGACCAAGCAAACTTCAGCAAAATGACCAAGCCCATG 1380

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Db          2765  TGTGAGCTGATGTGATGCTTTGAGCCAGCAACAACCTCAAGCAAAATGACACGACCCATGG 2824
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Qy          1381  AATTCCTGAGATTATTAATTGTTTGACCACTAATTAATGACCCGCTGAGCAAGACACA 1440
|||
Db          2825  AATACCTGAGATTATTAATTGTTTGACCACTAATTAATGACCCGCTGAGCAAGACACA 2884
|||
Qy          1441  ACAATTGTGCACACGCCCTCTCTGCTGGATATGTGTCTGAACTGGCTGCTGAATGTTT 1500
|||
Db          2885  ACAATTGTGCACACGCCCTCTCTGCTGGATATGTGTCTGAACTGGCTGCTGAATGTTT 2944
|||
Qy          1501  A 1501
||
Db          2945  A 2945

RESULT 8
US-09-949-016-2809
; Sequence 2809, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2809
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2809

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Query Match	99.8%;	Score 1497.8;	DB 4;	length 7070;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 1499;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0
QY	1	AGACTCATGATTACTGCAACAGTGTCCCTCGACCTGTGAAAAGTTCTGTGCTGGCTTA	60	
Db	1445	AAATCATATGATTTACTGCAACAGTGTCCCTCGACCTGTGAAAAGTTCTGTGCTGGCTTA	150-	
QY	61	CAGAAAGCTGAAACAACCTGCCAATGTCTTACAGATGCTACCCGTAAAGAAAGGCTCTTA	120	
Db	1505	CAGAAAGCTGAAACAACCTGCCAATGTCTTACAGATGCTACCCGTAAAGAAAGGCTCTTA	156-	
QY	121	AAGACTCAAGGAGGTAAAGAGCTGATGAAACATTTGGCAACCTCCAAAGGTGAATTTG	180	
Db	1565	AAGACTCAAGGAGGTAAAGAGCTGATGAAACATTTGGCAACCTCCAAAGGTGAATTTG	162-	
QY	181	AAAGTCAACAAGATTTTATCAACACTTGATGAAAAACGCCMAAAAAATCTGTAGATCCC	240	
Db	1625	AAAGTCAACAAGATTTTATCAACACTTGATGAAAAACGCCMAAAAAATCTGTAGATCCC	168-	
QY	241	TGAAAGTTCGATGATGCAGTCCGTGTACAAAGACGTTTGATTAACATGAACCTTCAAGT	300	
Db	1685	TGAAAGTTCGATGATGCAGTCCGTGTGTACAAAGACGTTTGATTAACATGAACCTTCAAGT	174#	
QY	301	GGAGTGAACCTTCGAAAAAGTCTCCACATTTAGGTCCCATTTTGGAAACCAAGTCTGACC	360	
Db	1745	GGAGTGAACCTTCGAAAAAGTCTCCACATTTAGGTCCCATTTTGGAAACCAAGTCTGACC	180#	
QY	361	AGTGAAGCGCTGCACCTTCTCTGCAAGAACTTCTGTGTGGCTTACAGCTGAAGATG	420	
Db	1805	AGTGAAGCGCTGCACCTTCTCTGCAAGAACTTCTGTGTGGCTTACAGCTGAAGATG	186#	

QY	421	ATGAAATTAAGCCGGCAGGCACTTATTTGAGCGACTTTTCACAGCTTCAGAAAGCAGAA	480
Db	1865	ATGAATTTAAGCCGGCAGGCACTTATTTGAGCGCACTTTCACAGCTTCAGAAAGCAGAA	1924
QY	481	ATGTACATGAGGCGCTTCAGAGAGGAAATTGAAACCTTAAGACCTGTATATCATGACTAC	540
Db	1925	ATGTACATGAGGCGCTTCAGAGAGGAAATTGAAACCTTAAGACCTGTATATCATGACTAC	1984
QY	541	TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGCATAGAGAACTTAC	600
Db	1985	TTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGCATAGAGAACTTAC	2044
QY	601	AGGAGGCCAGAGAGCGCTCCTCGTAGAGAGAGGCCAATATCTACTGGCTTCTACGA	660
Db	2045	AGGAGGCCAGAGAGCGCTCCTCGTAGAGAGAGGCCAATATCTACTGGCTTCTACGA	2104
QY	661	AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACTCGCACTCCGCTGACTGGC	720
Db	2105	AGCAGGCTGAGAGGTCATATCTGAGTGGGAAAAATTGAACTCGCACTCCGCTGACTGGC	2164
QY	721	AAGAGAAAAATGATAGAGACCTTTGAAAACTTCAGAGAACTTCAGAGGCCAGATAGC	780
Db	2165	AAGAGAAAAATGATAGAGACCTTTGAAAACTTCAGAGAACTTCAGAGGCCAGATAGC	2224
QY	781	TGGAAGCTCAAGCTGGCCAGCTGAGTGATCAAGAGGATCTTGACAGCCGCTGGCGATC	840
Db	2225	TGGAAGCTCAAGCTGGCCAGCTGAGTGATCAAGAGGATCTTGACAGCCGCTGGCGATC	2284
QY	841	TGCTCATTTGACTCTTCCAAATGACTCTCGAGAAAGTCAGAGCACTTCGAGAGAAATTG	900
Db	2285	TGCTCATTTGACTCTTCCAAATGACTCTCGAGAAAGTCAGAGCACTTCGAGAGAAATTG	2344
QY	901	CGCCTCTGAAAGAGAACGTGAGCCAGCTGAACTGACCTTGCTCGCAGCTTAACACTTTGG	960
Db	2345	CGCCTCTGAAAGAGAACGTGAGCCAGCTGAACTGACCTTGCTCGCAGCTTAACACTTTGG	2404
QY	961	GCATTACGCTTCAACCGTATACCTGACACTCTGGAAGACTGAACACCAAGATGAGAC	1020
Db	2405	GCATTACGCTTCAACCGTATACCTGACACTCTGGAAGACTGAACACCAAGATGAGAC	2464
QY	1021	TTTCGACAGTGGCCGCTGAGAGACCGAATCAAGGACGTCGTGAAAGCCCAAGGACCTTTG	1080
Db	2465	TTTCGACAGTGGCCGCTGAGAGACCGAATCAAGGACGTCGTGAAAGCCCAAGGACCTTTG	2524
QY	1081	GTCCAGACATCTCAGACATTTCTTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCAGCT	1140
Db	2525	GTCCAGACATCTCAGACATTTCTTTCCAGCTGTGTCCAGGGTCCCTGGAGAGAGCAGCT	2584
QY	1141	CGCCAAACAAAGTCCCTACTATATATCAACAAGAGCTCAAAACACTTGCTGGAGCAGTC	1200
Db	2585	CGCCAAACAAAGTCCCTACTATATATCAACAAGAGCTCAAAACACTTGCTGGAGCAGTC	2644
QY	1201	CCAAAATGACAGAGCTTCAACAGCTTTAGCTGACCTGAATTAATGTCAAGTTTCAGGTT	1260
Db	2645	CCAAAATGACAGAGCTTCAACAGCTTTAGCTGACCTGAATTAATGTCAAGTTTCAGGTT	2704
QY	1261	ATAGAGCTGCCATGAAACTCCGAAGACTGCAAGAGGCCCTTTGCTTGGATCTCTTGAGCC	1320
Db	2705	ATAGAGCTGCCATGAAACTCCGAAGACTGCAAGAGGCCCTTTGCTTGGATCTCTTGAGCC	2764
QY	1321	TGTGAGCTGCATGATGATGCTTGAGACAGACAACAACCTCAAGCAAAAATGACAGGCCATGG	1380
Db	2765	TGTGAGCTGCATGATGATGCTTGAGACAGACAACAACCTCAAGCAAAAATGACAGGCCATGG	2824
QY	1381	ATATCTGACGATTTATTTAATTTGTTTGAACAATAATTTATGACCGCTCGAGCAAGAGACA	1440
Db	2825	ATATCTGACGATTTATTTAATTTGTTTGAACAATAATTTATGACCGCTCGAGCAAGAGACA	2884
QY	1441	ACAATTTTGGTCAAGCGTCCCTCTCTGGTGGATATGTGTCTGAACCTGGCTGCTGAATGT	1500
Db	2885	ACAATTTTGGTCAAGCGTCCCTCTCTGGTGGATATGTGTCTGAACCTGGCTGCTGAATGT	2944
QY	1501	A	1501

Db 2945 A 2945

RESULT 9
US-09-949-016-2810

; Sequence 2810, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; CURRENT APPLICATION NUMBER: US/09/949,016

; PRIOR FILING DATE: 2000-04-14

; PRIOR FILING DATE: 2000-10-20

; PRIOR FILING DATE: 2000-10-20

; PRIOR FILING DATE: 2000-10-03

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2810

; LENGTH: 7070

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-2810

Query Match 99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.9%; Pred. No. 0;

Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAGTTTCTTGCTGGCTTGA 60
Db 1445 AAACCTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAGTTTCTTGCTGGCTTGA 1504
QY 61 CAGAAAGCTGGAACCACTGCAATGCTTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAG 120
Db 1505 CAGAAAGCTGGAACCACTGCAATGCTTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAG 1564
QY 121 AAGACTCCAAAGGAGTAAGAGAGTATGATAAACAATGAGCAAGCTCCAAAGTGAATTTG 180
Db 1565 AAGACTCCAAAGGAGTAAGAGAGTATGATAAACAATGAGCAAGCTCCAAAGTGAATTTG 1624
QY 181 AAGCTCACACAGATGTTTATCAACAACCTGATGAAACAGCCAAATAATCTGAGATCCC 240
Db 1625 AAGCTCACACAGATGTTTATCAACAACCTGATGAAACAGCCAAATAATCTGAGATCCC 1684
QY 241 TGGAAAGGTCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
Db 1685 TGGAAAGGTCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1744
QY 301 GGAAGTGAATCTCGGAAAAAGTCTCTCAACATTAGTCCATTGGAGAACCAAGTTCTGACC 360
Db 1745 GGAAGTGAATCTCGGAAAAAGTCTCTCAACATTAGTCCATTGGAGAACCAAGTTCTGACC 1804
QY 361 AGTGAAGAGCTGCTGACACTTTCTCTGACAGAACTTCTGATGCTGCTGCTGCTGCTGCTG 420
Db 1805 AGTGAAGAGCTGCTGACACTTTCTCTGACAGAACTTCTGATGCTGCTGCTGCTGCTGCTG 1864
QY 421 ATGAATTAAGCGCGGACGACCTATTTGAGAGGGAATTTCCAGAGCTTCAAGAGGAGAGAG 480
Db 1865 ATGAATTAAGCGCGGACGACCTATTTGAGAGGGAATTTCCAGAGCTTCAAGAGGAGAGAG 1924
QY 481 ATGTACATAGAGGCTTCAAGAGGAGATTAAGAACTTAAGAACTTGAATCAATGATGATCTC 540
Db 1925 ATGTACATAGAGGCTTCAAGAGGAGATTAAGAACTTAAGAACTTGAATCAATGATGATCTC 1984
QY 541 TTGAGACTGTACGAATATTTCTGACAGAGAGCTTTGGAGAGACTGAGAGAACTCTAC 600
Db 1985 TTGAGACTGTACGAATATTTCTGACAGAGAGCTTTGGAGAGACTGAGAGAACTCTAC 2044

QY 601 AGAGCCCGAGAGAGTCCCTCTGAGAGAGAGAGCCCAAGATGATCACTCGCTTCTACGA 660
Db 2045 AGAGCCCGAGAGAGTCCCTCTGAGAGAGAGAGCCCAAGATGATCACTCGCTTCTACGA 2104
QY 661 AGCAGGCTGAGAGAGTCAATCTGAGTGGAAAAATTAAGACTTGCATCTCCGTGATGCG 720
Db 2105 AGCAGGCTGAGAGAGTCAATCTGAGTGGAAAAATTAAGACTTGCATCTCCGTGATGCG 2164
QY 721 AGAGAAAAATGATGAGAGCCCTTGAAGAACTCCAGGAATCTCAAGAGGCAAGGATGAG 780
Db 2165 AGAGAAAAATGATGAGAGCCCTTGAAGAACTCCAGGAATCTCAAGAGGCAAGGATGAG 2224
QY 781 TGAACCTCAAGCTGGCCCAAGCTGAGTATCAAGAGATCTGAGAGCCCGTGGCGATC 840
Db 2225 TGAACCTCAAGCTGGCCCAAGCTGAGTATCAAGAGATCTGAGAGCCCGTGGCGATC 2284
QY 841 TCTCATTTGACTCTCTCCAGATCACTGAGAAAGTCAAGGCACTTGAAGAGAAATTG 900
Db 2285 TCTCATTTGACTCTCTCCAGATCACTGAGAAAGTCAAGGCACTTGAAGAGAAATTG 2344
QY 901 CGCCTTGAAGAGAGAGTGAAGCCAGTCAATGACCTTGGCTGGCAGCTTCACTTTGG 960
Db 2345 CGCCTTGAAGAGAGAGTGAAGCCAGTCAATGACCTTGGCTGGCAGCTTCACTTTGG 2404
QY 961 GCATTCAAGCTCTCAACCTATTAACCTCAAGCACTTGAAGAGCTGAAACCAAGATGGAAGC 1020
Db 2405 GCATTCAAGCTCTCAACCTATTAACCTCAAGCACTTGAAGAGCTGAAACCAAGATGGAAGC 2464
QY 1021 TTTCGAGTGGCCGCTGAGAGAGCGAGTCAAGCACTGATGAAAGCCCAAGGACTTTG 1080
Db 2465 TTTCGAGTGGCCGCTGAGAGAGCGAGTCAAGCACTGATGAAAGCCCAAGGACTTTG 2524
QY 1081 GTCCAGCATCTCAGACATCTTTTCCAGTCTGTCAGAGGTCCTGGGAGAGAGCATCT 1140
Db 2525 GTCCAGCATCTCAGACATCTTTTCCAGTCTGTCAGAGGTCCTGGGAGAGAGCATCT 2584
QY 1141 CGCCAAACAAAGTGCCTCTATATCAACACAGAGACTCAACAACTTGTGGAGCATC 1200
Db 2585 CGCCAAACAAAGTGCCTCTATATCAACACAGAGACTCAACAACTTGTGGAGCATC 2644
QY 1201 CCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTT 1260
Db 2645 CCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCTCAGCTT 2704
QY 1261 ATAGACTGCAATGAATCTCGAAGACTGCAAGAGCCCTTTGCTTGGATCTCTTGAACC 1320
Db 2705 ATAGACTGCAATGAATCTCGAAGACTGCAAGAGCCCTTTGCTTGGATCTCTTGAACC 2764
QY 1321 TGTGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
Db 2765 TGTGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2824
QY 1381 ATATCTGCAAGATTAATTAATTTGATGACCACTATTTATGACCGCTGAGCAAGAGACA 1440
Db 2825 ATATCTGCAAGATTAATTAATTTGATGACCACTATTTATGACCGCTGAGCAAGAGACA 2884
QY 1441 ACAATTTGATCAAGTCCCTCTCTGCGTGAATGATGATGATGATGATGATGATGATGAT 1500
Db 2885 ACAATTTGATCAAGTCCCTCTCTGCGTGAATGATGATGATGATGATGATGATGATGAT 2944
QY 1501 A 1501
Db 2945 A 2945

RESULT 10
US-09-949-016-2811

; Sequence 2811, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

```

; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 2811
; LENGTH: 7070
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2811

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Query Match      99.8%; Score 1497.8; DB 4; Length 7070;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 1 AGACTCATGATTACTGCAACAGTCCCTGAGCTGGAAGTTCTTGGCTGCTT
Db 1445 AAACCTCATGATTACTGCAACAGTCCCTGAGCTGGAAGTTCTTGGCTGCTT
QY 61 CAGAGCTGAAACAACTGCAACAGTCCCTGAGCTGGAAGTTCTTGGCTGCTT
Db 1505 CAGAGCTGAAACAACTGCAACAGTCCCTGAGCTGGAAGTTCTTGGCTGCTT
QY 121 AAGACTCAAGAGGAGTAAAGAGCTGATGAAACATGAGCAAGCTCCGTAAGTAA
Db 1565 AAGACTCAAGAGGAGTAAAGAGCTGATGAAACATGAGCAAGCTCCGTAAGTAA
QY 181 AAGCTCAACAGAGTATTTTATCAACCTGATGAAAGCAAGCAAGTCTGAGATCC
Db 1625 AAGCTCAACAGAGTATTTTATCAACCTGATGAAAGCAAGCAAGTCTGAGATCC
QY 241 TGGAGGTTCCAGTATGAGTCTGTTCAAGAGCTTGGATTAACATGAACTTCAAGT
Db 1685 TGGAGGTTCCAGTATGAGTCTGTTCAAGAGCTTGGATTAACATGAACTTCAAGT
QY 301 GAGAGTAACTTTGGGAAAAAGTCTTCAACATTAGTCCATTGGAGCCAGTTCTGACC
Db 1745 GAGAGTAACTTTGGGAAAAAGTCTTCAACATTAGTCCATTGGAGCCAGTTCTGACC
QY 361 AAGTGAAGGCTTGAACCTTTCTTGAAGAACTTCTGAGTCTGAGTCTGAAAGT
Db 1805 AAGTGAAGGCTTGAACCTTTCTTGAAGAACTTCTGAGTCTGAGTCTGAAAGT
QY 421 AAGATTAAGCCGAGGACCTTATTTGAGGCACTTTCAGAGCTTCAAGAGCAAGC
Db 1865 AAGATTAAGCCGAGGACCTTATTTGAGGCACTTTCAGAGCTTCAAGAGCAAGC
QY 481 ATGTACATAGGAGCTTCAAGAGGAGTAAAGTAAAGAACTGATATCATGATGATC
Db 1925 ATGTACATAGGAGCTTCAAGAGGAGTAAAGTAAAGAACTGATATCATGATGATC
QY 541 TTGAGACTGTTACGAATATTTCTGACAGAGCCTTTGAAAGACCTGAGAACTTAC
Db 1985 TTGAGACTGTTACGAATATTTCTGACAGAGCCTTTGAAAGACCTGAGAACTTAC
QY 601 AAGAGCCCAAGAGCTGCTCTGAGAGAGAGCCCAAGATGCTGCTGCTTCTAGCA
Db 2045 AAGAGCCCAAGAGCTGCTCTGAGAGAGAGCCCAAGATGCTGCTGCTTCTAGCA
QY 661 AAGAGCTGAGAGGATCAATATGAGTGAAGAAATTTGAACCTGCACTGCTGAGT
Db 2105 AAGAGCTGAGAGGATCAATATGAGTGAAGAAATTTGAACCTGCACTGCTGAGT
QY 721 AAGAGAAAAATGATGAGTGAAGTGAAGAACTTCAAGAGCTTCAAGAGGCAAGT
Db 2165 AAGAGAAAAATGATGAGTGAAGTGAAGAACTTCAAGAGGCAAGT

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QY 781 TGGAGCTCAAGCTGGCCCAAGCTGAGTGAAGGATCTTGGAGCCCGTGGCGATC
Db 2225 TGGAGCTCAAGCTGGCCCAAGCTGAGTGAAGGATCTTGGAGCCCGTGGCGATC
QY 841 TCTCATTTGACTCTCTCCAAAGTCACTGAGAAAGTCAAGGCACTTGGAGAAATTTG
Db 2285 TCTCATTTGACTCTCTCCAAAGTCACTGAGAAAGTCAAGGCACTTGGAGAAATTTG
QY 901 CGCCTCTGAAAGAAAGTGAAGCCAGTCAATGACCTTGTCTGCGACCTTACCTTTG
Db 2345 CGCCTCTGAAAGAAAGTGAAGCCAGTCAATGACCTTGTCTGCGACCTTACCTTTG
QY 961 GCATTGAGCTCTCAAGCTGATATACCTGAGCACTTGGAGAACTGAAACCAAGTGAAGC
Db 2405 GCATTGAGCTCTCAAGCTGATATACCTGAGCACTTGGAGAACTGAAACCAAGTGAAGC
QY 1021 TTCTGAGAGTGGCCGTGAGAGCCAGTCAAGGCACTGATGAAAGCCCAAGGACCTTTG
Db 2465 TTCTGAGAGTGGCCGTGAGAGCCAGTCAAGGCACTGATGAAAGCCCAAGGACCTTTG
QY 1081 GTCCAGCATCTCAGCACTTTCTTCCAGCTGCTGCAAGGCTCTTGGAGAGAGCCATCT
Db 2525 GTCCAGCATCTCAGCACTTTCTTCCAGCTGCTGCAAGGCTCTTGGAGAGAGCCATCT
QY 1141 CGCCAAACAAAGTCCCTCAATATCAACCAAGAGCTCAACCACTTCTGGAGCAATC
Db 2585 CGCCAAACAAAGTCCCTCAATATCAACCAAGAGCTCAACCACTTCTGGAGCAATC
QY 1201 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAAATATGTCAGATTTCACTT
Db 2645 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAAATATGTCAGATTTCACTT
QY 1261 ATGAGACTGTCATGAAGTCTCCGAGAGCTGAGAGGCTTTGCTTGAATCTTGAAGC
Db 2705 ATGAGACTGTCATGAAGTCTCCGAGAGCTGAGAGGCTTTGCTTGAATCTTGAAGC
QY 1321 TGTCACTGATGATGATGCTTGGACCAAGCAACCTCAAGCAAAATGACAGCCATG
Db 2765 TGTCACTGATGATGATGCTTGGACCAAGCAACCTCAAGCAAAATGACAGCCATG
QY 1381 ATATCTGCAATATTTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGAGCA
Db 2825 ATATCTGCAATATTTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGAGCA
QY 1441 ACAATTTGTTCAAGCTCCCTCTGCGGTGATATGATGCTGAACTGCTGTAATGTT
Db 2885 ACAATTTGTTCAAGCTCCCTCTGCGGTGATATGATGCTGAACTGCTGTAATGTT
QY 1501 A 1501
Db 2945 A 2945

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RESULT 11
US-09-949-016-2812
; Sequence 2812, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2812

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LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2812

Query Match 99.8%; Score 1497.8; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

1 AGACTCATAGATTACTGCAACAGTTCCCTGACCTGGAAAAAGTTTCTTGCTGGCTTA 60
1445 AAACCTCATAGATTACTGCAACAGTTCCCTGACCTGGAAAAAGTTTCTTGCTGGCTTA 1504
61 CAGAAAGCTGAAACCACTGCAATGCTTCAAGAGTCTACCCGTAAGAAAGGCTCTAG 120
1505 CAGAAAGCTGAAACCACTGCAATGCTTCAAGAGTCTACCCGTAAGAAAGGCTCTAG 1564
121 AAGACTCCAAAGGAGTAAAGAGCTGATGAAAACAATGGCAAGACCTCCAAAGGTAAATTG 180
1565 AAGACTCCAAAGGAGTAAAGAGCTGATGAAAACAATGGCAAGACCTCCAAAGGTAAATTG 1624
181 AAGCTCACACAGATGTTTATCAACACTGATGAAAAACGCCAAAAAATCTGAGATCCC 240
1625 AAGCTCACACAGATGTTTATCAACACTGATGAAAAACGCCAAAAAATCTGAGATCCC 1684
241 TGGAAAGTTCGGATGATGAGTCCCTGTTACAAAGAGTTTGGATTAACATGAATCTCAAGT 300
1685 TGGAAAGTTCGGATGATGAGTCCCTGTTACAAAGAGTTTGGATTAACATGAATCTCAAGT 1744
301 GGAGTGAACCTTCGGAAGAAAGTCTCAACATTAGGTTCCATTGGAGCCAGTTCTGACC 360
1745 GGAGTGAACCTTCGGAAGAAAGTCTCAACATTAGGTTCCATTGGAGCCAGTTCTGACC 1804
361 AGTGAAGACGCTCTGCACTTTCTCTGCAAGAACTTCTGCTGCTGCTCACTGAGAAATG 420
1805 AGTGAAGACGCTCTGCACTTTCTCTGCAAGAACTTCTGCTGCTGCTCACTGAGAAATG 1864
421 ATGAATTAAAGCCGGAGGACCTATTGAGAGGGAATTTCCAGCACTTCAAGAGCAAGAG 480
1865 ATGAATTAAAGCCGGAGGACCTATTGAGAGGGAATTTCCAGCACTTCAAGAGCAAGAG 1924
481 ATGTACATAGAGGCTTCAAGAGGGAATTTGAAACCTTAAGAACTTGAATCATGACTACTC 540
1925 ATGTACATAGAGGCTTCAAGAGGGAATTTGAAACCTTAAGAACTTGAATCATGACTACTC 1984
541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGAGAGGACTAGAGAACTCTACC 600
1985 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGAGAGGACTAGAGAACTCTACC 2044
601 AGGAGCCCAAGAGAGTCTCTCTGAGAGAGAGCCCAAGATCTCACTGGCTTCTAAGAA 660
2045 AGGAGCCCAAGAGAGTCTCTCTGAGAGAGAGCCCAAGATCTCACTGGCTTCTAAGAA 2104
661 AGCAGGCTGAGAGAGTCTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGAGTGGC 720
2105 AGCAGGCTGAGAGAGTCTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGAGTGGC 2164
721 AGAGAAAAATAGATGAGACCTTTGAAAGACTTCAGAGAACTTCAAGAGGCCAGATGAGC 780
2165 AGAGAAAAATAGATGAGACCTTTGAAAGACTTCAGAGAACTTCAAGAGGCCAGATGAGC 2224
781 TGGAGCTCAAGCTGGCCCAAGTGAAGTGAATCAAGGATCTCCGAGAGCCCGTGGGCGATC 840
2225 TGGAGCTCAAGCTGGCCCAAGTGAAGTGAATCAAGGATCTCCGAGAGCCCGTGGGCGATC 2284
841 TCCTCATTTGACTCTCTCCAAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTG 900
2285 TCCTCATTTGACTCTCTCCAAAGATCACTCGAAGAAAGTCAAGGCACTTGAAGAGAAATTG 2344
901 CGCCTCTGAAGAGAAAGTGAAGCAAGTCAATGACCTTGGCTGCAAGCTTACCACTTTGG 960
2345 CGCCTCTGAAGAGAAAGTGAAGCAAGTCAATGACCTTGGCTGCAAGCTTACCACTTTGG 2404

961 GCATTACAGCTCTACCCGATTAACCTCAGCACTCTGGAAGACCTGAACCAAGATGGAAGC 1020
2405 GCATTACAGCTCTACCCGATTAACCTCAGCACTCTGGAAGACCTGAACCAAGATGGAAGC 2464
1021 TTCTGACAGTGGCCGTGAGAGACCGAGTCAAGGCAAGCTGATGAAGCCCAAGGGAATTTG 1080
2465 TTCTGACAGTGGCCGTGAGAGACCGAGTCAAGGCAAGCTGATGAAGCCCAAGGGAATTTG 2524
1081 GTCCAGATCTCAGACATTTCTTTCACAGTGTGTCAGAGGTCCTGGGAGAGAGCATCT 1140
2525 GTCCAGATCTCAGACATTTCTTTCACAGTGTGTCAGAGGTCCTGGGAGAGAGCATCT 2584
1141 CGCCAAACAAAGTCCCTCATATATCAACCAAGAGACTCAACCAACTTGTGAGGACATC 1200
2585 CGCCAAACAAAGTCCCTCATATATCAACCAAGAGACTCAACCAACTTGTGAGGACATC 2644
1201 CCAAAATGACAGAGCTCTACCAAGTCTTGAAGTCACTGATTAATGATGATTTCAAGTT 1260
2645 CCAAAATGACAGAGCTCTACCAAGTCTTGAAGTCACTGATTAATGATGATTTCAAGTT 2704
1261 ATAGAGCTGCGATGAACTCCGAAAGCTGCAAGAGGCTTGTGCTGATCTTTGAGCC 1320
2705 ATAGAGCTGCGATGAACTCCGAAAGCTGCAAGAGGCTTGTGCTGATCTTTGAGCC 2764
1321 TGTCAAGCTGATGATGCTTGTGACCAAGCACTCAACCAAAATGACAGCCCATGG 1380
2765 TGTCAAGCTGATGATGCTTGTGACCAAGCACTCAACCAAAATGACAGCCCATGG 2824
1381 ATATCTGCGATTAATTAATGTTTATGACCACTATTTATGACCGCTGAGCAAGAGCA 1440
2825 ATATCTGCGATTAATTAATGTTTATGACCACTATTTATGACCGCTGAGCAAGAGCA 2884
1441 ACAATTTGCTCAAGTCCCTCTGCGGATGATGCTGAAGCTGCTGATGATGTT 1500
2885 ACAATTTGCTCAAGTCCCTCTGCGGATGATGCTGAAGCTGCTGATGATGTT 2944
1501 A 1501
2945 A 2945

RESULT 12
US-09-949-016-2813
Sequence 2813, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2813
LENGTH: 7109
TYPE: DNA
ORGANISM: Human
US-09-949-016-2813

Query Match 99.8%; Score 1497.8; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

1 AGACTCATAGATTACTGCAACAGTTCCCTGACCTGGAAAAAGTTTCTTGCTGGCTTA 60
1445 AAACCTCATAGATTACTGCAACAGTTCCCTGACCTGGAAAAAGTTTCTTGCTGGCTTA 1504

QY 61 CAGAACTGAAACAACTGCAATGCTCTACAGAGATGCTACCCGTAAGAAAGCTCTAG 120
DB 1505 CAGAACTGAAACAACTGCAATGCTCTACAGAGATGCTACCCGTAAGAAAGCTCTAG 1564
QY 121 AAGACTCCAGAGAGATGAAAGAGCTGATGAAACAACTGCAAGAACTCCAGAGTAAATTG 180
DB 1565 AAGACTCCAGAGAGATGAAAGAGCTGATGAAACAACTGCAAGAACTCCAGAGTAAATTG 1624
QY 181 AAGCTCACAGATGTTATCAACCTGATGAAACAGCAAAATCTGATGCC 240
DB 1625 AAGCTCACAGATGTTATCAACCTGATGAAACAGCAAAATCTGATGCC 1684
QY 241 TGGAAAGTCCGATGATGCAATCTGTTACAAAGACGTTGATTAACATGAATCTCAAGT 300
DB 1685 TGGAAAGTCCGATGATGCAATCTGTTACAAAGACGTTGATTAACATGAATCTCAAGT 1744
QY 301 GGAATGAACTTCGGAAGAAAGCTCTCAACATTAAGTCCCATTTGAAAGCCAGTTTGACC 360
DB 1745 GGAATGAACTTCGGAAGAAAGCTCTCAACATTAAGTCCCATTTGAAAGCCAGTTTGACC 1804
QY 361 AGTGAAGCGTCTGACCTTTCTCTGACAGAACTTGTGTGGCTACAGCTGAAAGATG 420
DB 1805 AGTGAAGCGTCTGACCTTTCTCTGACAGAACTTGTGTGGCTACAGCTGAAAGATG 1864
QY 421 ATGAATTAAGCCGAGAGCACTATTGAGAGCACTTTCCAGCAATTCAGAAAGCAAGC 480
DB 1865 ATGAATTAAGCCGAGAGCACTATTGAGAGCACTTTCCAGCAATTCAGAAAGCAAGC 1924
QY 481 ATGTACATAGGCGCTTCAAGAGGAATTGAAACTAAAGACCTGTAATCAAGATGACTC 540
DB 1925 ATGTACATAGGCGCTTCAAGAGGAATTGAAACTAAAGACCTGTAATCAAGATGACTC 1984
QY 541 TTGAGCTGATGAGAAATTTCTGACAGAGAGCTTTGGAAGACTAGAAACTCTACC 600
DB 1985 TTGAGCTGATGAGAAATTTCTGACAGAGAGCTTTGGAAGACTAGAAACTCTACC 2044
QY 601 AGGAGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGCTCTGCTTCTAGCA 660
DB 2045 AGGAGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGCTCTGCTTCTAGCA 2104
QY 661 AGCAGCTGAGAGAGCTCAATCTGATGAGAAATTAACCTGACTCCGCTGACTGC 720
DB 2105 AGCAGCTGAGAGAGCTCAATCTGATGAGAAATTAACCTGACTCCGCTGACTGC 2164
QY 721 AGAGAAAAATAGATGAGACCTGTAAGACTCCAGAACTTCAAGAGCCACGATGAGC 780
DB 2165 AGAGAAAAATAGATGAGACCTGTAAGACTCCGTAAGACTTCAAGAGCCACGATGAGC 2224
QY 781 TGGACCTCAAGCTGCGCAAGCTGATCAAGAGGATCTGCGACGCGCGGCGATC 840
DB 2225 TGGACCTCAAGCTGCGCAAGCTGATCAAGAGGATCTGCGACGCGCGGCGATC 2284
QY 841 TCCTCATTAAGCTCTCTCAAGATCACTTCGAAAGATCAAGGCACTTCGAGAGAAATTG 900
DB 2285 TCCTCATTAAGCTCTCTCAAGATCACTTCGAAAGATCAAGGCACTTCGAGAGAAATTG 2344
QY 901 CGCCTCTGAAAGAGAAAGCTGAGCAAGCTGATGAGCTTGTGCTGCGACCTTAACAATTGG 960
DB 2345 CGCCTCTGAAAGAGAAAGCTGAGCAAGCTGATGAGCTTGTGCTGCGACCTTAACAATTGG 2404
QY 961 GCATTTCAGCTTCAACCTGATTAACCTGACACTCTGGAAGACTGAAACCAAGATGGAAGC 1020
DB 2405 GCATTTCAGCTTCAACCTGATTAACCTGACACTCTGGAAGACTGAAACCAAGATGGAAGC 2464
QY 1021 TTCTGAGGTGCGCTGAGAGACCAAGTCAAGGACGCTGCAAGAAAGCCACAGGAACTTTG 1080
DB 2465 TTCTGAGGTGCGCTGAGAGACCAAGTCAAGGACGCTGCAAGAAAGCCACAGGAACTTTG 2524
QY 1081 GTCCAGATCTCAGCACTTTCTTTCAACGATCTGTCAGAGGCTCCCTGAGAGAGCAATCT 1140
DB 2525 GTCCAGATCTCAGCACTTTCTTTCAACGATCTGTCAGAGGCTCCCTGAGAGAGCAATCT 2584

QY 1141 CGCAAAACAAAGTGCCTTACTATCAACAGAGACTCAAGCACTTGTGGAGCAATC 1200
DB 2585 CGCAAAACAAAGTGCCTTACTATCAACAGAGACTCAAGCACTTGTGGAGCAATC 2644
QY 1201 CCAAAATGACAGAGCTCTACAGAGCTTTAGCTGACCTGAATATGTAGATTCAGCTT 1260
DB 2645 CCAAAATGACAGAGCTCTACAGAGCTTTAGCTGACCTGAATATGTAGATTCAGCTT 2704
QY 1261 ATAGAGCTGCCATGAAATCCGGAAGACTGCAAGAGCGCTTTGCTTGGATCTTTGAGCC 1320
DB 2705 ATAGAGCTGCCATGAAATCCGGAAGACTGCAAGAGCGCTTTGCTTGGATCTTTGAGCC 2764
QY 1321 TGTGAGCTGATGATGATGCTTTGACCAAGCAACACTCAAGCAAAATGACCAAGCCATG 1380
DB 2765 TGTGAGCTGATGATGATGCTTTGACCAAGCAACACTCAAGCAAAATGACCAAGCCATG 2824
QY 1381 ATATCTGACATTAATTAATTTGTTGACCACTATTATGACCGCTGAGCAAGACACA 1440
DB 2825 ATATCTGACATTAATTAATTTGTTGACCACTATTATGACCGCTGAGCAAGACACA 2884
QY 1441 ACAAATTTGTCACAGTCCCTCTGCGTGTGATATGTGTGAACTGAGCTGATGTTT 1500
DB 2885 ACAAATTTGTCACAGTCCCTCTGCGTGTGATATGTGTGAACTGAGCTGATGTTT 2944
QY 1501 A 1501
DB 2945 A 2945

RESULT 13
US-09-949-016-2814
Sequence 2814, Application US/09949016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2814
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2814

Query Match 99.8%; Score 1497.8; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTTCTGCAACAGTTCCTCCGAGCTGAGAAAGTTTCTTGCTGCTTA 60
DB 1445 AACTCATAGATTTCTGCAACAGTTCCTCCGAGCTGAGAAAGTTTCTTGCTGCTTA 1504
QY 61 CAGAACTGAAACAACTGCAATGCTCTACAGAGATGCTACCCGTAAGAAAGCTCTAG 120
DB 1505 CAGAACTGAAACAACTGCAATGCTCTACAGAGATGCTACCCGTAAGAAAGCTCTAG 1564
QY 121 AAGACTCCAGAGAGATGAAAGAGCTGATGAAACAACTGCAAGAACTCCAGAGTAAATTG 180
DB 1565 AAGACTCCAGAGAGATGAAAGAGCTGATGAAACAACTGCAAGAACTCCAGAGTAAATTG 1624
QY 181 AAGCTCACAGATGTTATCAACCTGATGAAACAGCAAAATCTGATGCC 240
DB 1625 AAGCTCACAGATGTTATCAACCTGATGAAACAGCAAAATCTGATGCC 1684

241 TGAAGGTTCCGATGATGAGTCTGTTACAAAAGAGCTTTGGATTAACATGAACCTTCAAGT 300
Db TGAAGGTTCCGATGATGAGTCTGTTACAAAAGAGCTTTGGATTAACATGAACCTTCAAGT 1744
Qy 301 GGAAGTGAACCTTCGAAAAAGTCTCTCAACATTAGGTCCATTGGAGCCAGTTCTGACC 360
Db 1745 GGAAGTGAACCTTCGAAAAAGTCTCTCAACATTAGGTCCATTGGAGCCAGTTCTGACC 1804
Qy 361 AGTGAAGAGCTCTGACCTTTCTCTGACAGAACCTTCTGTGTGTGCTAACAGCTGAAGATG 420
Db 1805 AGTGAAGAGCTCTGACCTTTCTCTGACAGAACCTTCTGTGTGTGCTAACAGCTGAAGATG 1864
Qy 421 ATGAATTAAAGCCGAGGACCACTTATTTGAGGCGACCTTTCCAGACATTCAGAAAGCAGAACG 480
Db 1865 ATGAATTAAAGCCGAGGACCACTTATTTGAGGCGACCTTTCCAGACATTCAGAAAGCAGAACG 1924
Qy 481 ATGTACATAGGAGCTTCAAGAGGGAATTGAAAACCTTAAAGACCTGTAAATCATGAGTACTC 540
Db 1925 ATGTACATAGGAGCTTCAAGAGGGAATTGAAAACCTTAAAGACCTGTAAATCATGAGTACTC 1984
Qy 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAGAGATTAAGAAAACCTTACC 600
Db 1985 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAGAGATTAAGAAAACCTTACC 2044
Qy 601 AGGAGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCTGCGGCTTCTACGAA 660
Db 2045 AGGAGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCTGCGGCTTCTACGAA 2104
Qy 661 AGCAGGCTGAGAGAGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 2105 AGCAGGCTGAGAGAGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2164
Qy 721 AGAGAAAAATAGATGAGACCTTTGAAAAAGCTTCAGAGAACTTCAAGAGCCAGATGAGC 780
Db 2165 AGAGAAAAATAGATGAGACCTTTGAAAAAGCTTCAGAGAACTTCAAGAGCCAGATGAGC 2224
Qy 781 TGAACCTCAAGCTGCGCAGAGCTGAGTATCAAGAGGATTCCTGGCAGCCCGTGGGCGATC 840
Db 2225 TGAACCTCAAGCTGCGCAGAGCTGAGTATCAAGAGGATTCCTGGCAGCCCGTGGGCGATC 2284
Qy 841 TCCTCATTTGACTCTCTCCAGATCACTTCAGAGAAAGTCAAGGCACTTCGAGAGAAATTG 900
Db 2285 TCCTCATTTGACTCTCTCCAGATCACTTCGAGAAAGTCAAGGCACTTCGAGAGAAATTG 2344
Qy 901 CGCCTCTGAAAGAGACCTGAGCCAGTCAATGACCTTGTGCGCACTTACCACTTTGG 960
Db 2345 CGCCTCTGAAAGAGACCTGAGCCAGTCAATGACCTTGTGCGCACTTACCACTTTGG 2404
Qy 961 GCATTTCAGCTCTCAACCTGATTAACCTCAGACACTCTGGAAGAGCCTGAACACAGATGGAAGC 1020
Db 2405 GCATTTCAGCTCTCAACCTGATTAACCTCAGACACTCTGGAAGAGCCTGAACACAGATGGAAGC 2464
Qy 1021 TTCTGAGAGTGGCGCTCGAGGACCGAGTCAAGGACGCTGATGAAGCCACAGGGAATTG 1080
Db 2465 TTCTGAGAGTGGCGCTCGAGGACCGAGTCAAGGACGCTGATGAAGCCACAGGGAATTG 2524
Qy 1081 GTCCAGACTCTCAGACCTTTCTTTCTTCTCAAGTCTGTCTCAAGGCTCCTGGAGAGAGCATCT 1140
Db 2525 GTCCAGACTCTCAGACCTTTCTTTCTTCTCAAGTCTGTCTCAAGGCTCCTGGAGAGAGCATCT 2584
Qy 1141 CGCCAAACAAAGTGCCTCACTATATCAACACAGAGACTCAACAAACCTTGTGGGAGCATC 1200
Db 2585 CGCCAAACAAAGTGCCTCACTATATCAACACAGAGACTCAACAAACCTTGTGGGAGCATC 2644
Qy 1201 CCAAAATGACAGAGCTCTTACAGAGTCTTATGAGTGAAGCTGAATATATGATTCAGACTT 1260
Db 2645 CCAAAATGACAGAGCTCTTACAGAGTCTTATGAGTGAAGCTGAATATATGATTCAGACTT 2704
Qy 1261 ATGAGACTGCGCATGAATCTCGAGAGACTGCAAGAGGCTTTGTGTTGATCTCTTGAACC 1320
Db 2705 ATGAGACTGCGCATGAATCTCGAGAGACTGCAAGAGGCTTTGTGTTGATCTCTTGAACC 2764

Qy 1321 TGTGAGCTGATGTGATGCTTGTGACAGACAAACCTTCAGCAAAATGACAGCCCATG 1380
Db 2765 TGTGAGCTGATGTGATGCTTGTGACAGACAAACCTTCAGCAAAATGACAGCCCATG 2824
Qy 1381 ATATCTGCGAGATTATTAATTGTTTGTGACCACTATTTATGACCGCTGAGAGCAAGACCA 1440
Db 2825 ATATCTGCGAGATTATTAATTGTTTGTGACCACTATTTATGACCGCTGAGAGCAAGACCA 2884
Qy 1441 ACAATTTGGTCAAGCTCCCTCTGCGGTGATATGTGTGAACTGGCTGCTGAATGTTT 1500
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US-09-949-016-2815
; Sequence 2815, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2815
; LENGTH: 7109
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2815

Query Match 99.8%; Score 1497.8; DB 4; Length 7109;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Qy 121 AAGACTCAAGAGAGTAAAGAGCTGATGAACAATGCGCAAGACCTCAAGSTGAATTG 180
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 06:35:12 ; Search time 897.381 Seconds
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Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2362729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum March 0%
Maximum March 10%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1501	100.0	4182	10	US-09-845-416-2 Sequence 2, Appl
2	1501	100.0	5149	10	US-09-845-416-27 Sequence 27, Appl
3	1499.4	99.9	3858	10	US-09-845-416-9 Sequence 9, Appl
4	1499.4	99.9	4825	10	US-09-845-416-29 Sequence 29, Appl
5	1499.4	99.9	4848	10	US-09-845-416-35 Sequence 35, Appl
6	1499.4	99.9	5060	10	US-09-845-416-36 Sequence 36, Appl
7	1499.4	99.9	8689	17	US-10-149-736-42 Sequence 42, Appl
8	1499.4	99.9	11058	10	US-09-845-416-1 Sequence 1, Appl
9	1499.4	99.9	11443	17	US-10-149-736-44 Sequence 44, Appl
10	1499.4	99.9	12057	17	US-10-149-736-47 Sequence 47, Appl
11	1499.4	99.9	13957	9	US-09-782-378A-22 Sequence 22, Appl

12	1499.4	99.9	13957	9	US-09-880-107-2284 Sequence 2284, Ap
13	1499.4	99.9	13957	17	US-10-149-736-1 Sequence 1, Appl
14	1499.4	99.9	14069	17	US-10-172-118-434 Sequence 434, App
15	1499.4	99.9	14069	17	US-10-342-887-434 Sequence 434, App
16	1499.4	99.9	14082	17	US-10-341-434-108 Sequence 108, App
17	1499.4	99.9	14082	17	US-10-172-118-981 Sequence 981, App
18	1499.4	99.9	14082	17	US-10-342-887-981 Sequence 981, App
19	1499.4	99.9	2169	10	US-09-845-416-4 Sequence 4, Appl
20	1499.4	99.9	3531	10	US-09-845-416-10 Sequence 10, Appl
21	1499.4	99.9	3999	10	US-09-845-416-6 Sequence 6, Appl
22	1499.4	99.9	4498	10	US-09-845-416-30 Sequence 30, Appl
23	1499.4	99.9	4966	10	US-09-845-416-28 Sequence 28, Appl
24	1499.4	99.9	4990	10	US-09-845-416-34 Sequence 34, Appl
25	1497.7	99.7	5339	17	US-10-149-736-40 Sequence 40, Appl
26	1496.9	99.7	5462	17	US-10-149-736-41 Sequence 41, Appl
27	1285	85.6	13815	17	US-10-149-736-2 Sequence 2, Appl
28	1156.8	77.1	3510	10	US-09-845-416-12 Sequence 12, Appl
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31	766.6	51.1	3446	10	US-09-845-416-14 Sequence 14, Appl
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33	765.6	51.0	5417	17	US-10-149-736-39 Sequence 39, Appl
34	765	51.0	1434	10	US-09-845-416-15 Sequence 15, Appl
35	587.4	39.1	10705	17	US-10-152-319A-1598 Sequence 1598, Ap
36	581.2	38.7	11096	17	US-10-149-736-4 Sequence 4, Appl
37	564.6	37.6	10302	9	US-09-782-378A-23 Sequence 23, Appl
38	564.6	37.6	10302	17	US-10-149-736-3 Sequence 3, Appl
39	552.6	36.8	15531	15	US-10-101-510-667 Sequence 667, App
40	476.4	31.7	5106	17	US-10-220-120-157 Sequence 157, App
41	387	25.8	387	17	US-10-149-736-32 Sequence 32, Appl
42	348	23.2	348	17	US-10-149-736-31 Sequence 31, Appl
43	324	21.6	324	17	US-10-149-736-33 Sequence 33, Appl
44	221	14.7	887	17	US-10-149-736-35 Sequence 35, Appl
45	216	14.4	216	17	US-10-149-736-34 Sequence 34, Appl

ALIGNMENTS

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US-09-845-416-2 ; Sequence 2, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 361 AGTGAAGCGTCTGACCTTCTCTGAGGAACTTCGATGATGATGATGATGATGATG 420
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Db 3500 A 3500

RESULT 2

US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 100.0%; Score 1501; DB 10; Length 5149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Qy 1141 CGCCAAACAAAGTGCCTTAATATCAACCAAGAGCTCAAAACAATTGCTGGAGCATC 1200
 Db 3897 CGCCAAACAAAGTGCCTTAATATCAACCAAGAGCTCAAAACAATTGCTGGAGCATC 3956
 Qy 1201 CCAAAATGAGAGAGCTCTACAGCTTTAGCTGACCTGAATATATGTCAGATTCTCAGATT 1260
 Db 3957 CCAAAATGAGAGAGCTCTACAGCTTTAGCTGACCTGAATATATGTCAGATTCTCAGATT 4016
 Qy 1261 ATAGAGCTGCGCATGAACTCCAGAGACTGCAAGAGGCCCTTTGCTGGATCTCTTGAGCC 1320
 Db 4017 ATAGAGCTGCGCATGAACTCCAGAGACTGCAAGAGGCCCTTTGCTGGATCTCTTGAGCC 4076
 Qy 1321 TGTCACTGTCACTGTGATGCTTGGACCAAGCAAACTTCAGCAAAATGACCAAGCCATGG 1380
 Db 4077 TGTCACTGTCACTGTGATGCTTGGACCAAGCAAACTTCAGCAAAATGACCAAGCCATGG 4136
 Qy 1381 ATATCTGCGAGATTAATTAATTTGTTGACCACTATTTATGACCGGCTGGAGAGAGCA 1440
 Db 4137 ATATCTGCGAGATTAATTAATTTGTTGACCACTATTTATGACCGGCTGGAGAGAGCA 4196
 Qy 1441 ACAATTTGTCAGAGTCCCTCTCTGCGTGAATATGTGTCTGAATGCTGCTGTAATGTTT 1500

Db 4197 ACAATTTGTCAGAGTCCCTCTCTGCGTGAATATGTGTCTGAATGCTGCTGTAATGTTT 4256
 Qy 1501 A 1501
 Db 4257 A 4257

RESULT 3
 US-09-845-416-9
 ; Sequence 9, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; TITLE OF INVENTION: THEREOF
 ; FILE REFERENCE: DE1142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIORITY APPLICATION NUMBER: 60/200,777
 ; PRIOR FILING DATE: 2000-04-28
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 9
 ; LENGTH: 3858
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-845-416-9

Query Match 99.9%; Score 1499.4; DB 10; Length 3858;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGACTCAATGATTACTGCAACAGTTCCCGCTGAGCTGGAAGATTTCTTGCGCTGGCTTA 60
 Db 1676 ACACCTCAATGATTACTGCAACAGTTCCCGCTGAGCTGGAAGATTTCTTGCGCTGGCTTA 1735
 Qy 61 CAGAAGCTGAACCACTGCGCAATGCTCTACAGATGCTACCCCTGAAGAAAGCTCTAG 120
 Db 1736 CAGAAGCTGAACCACTGCGCAATGCTCTACAGATGCTACCCCTGAAGAAAGCTCTAG 1795
 Qy 121 AAGACTCCAAAGGAGTAAAGAGCTGATGAACCAATGCAAGACCTCCAGGTGAATTTG 180
 Db 1796 AAGACTCCAAAGGAGTAAAGAGCTGATGAACCAATGCAAGACCTCCAGGTGAATTTG 1855
 Qy 181 AAGCTCACAGAGATTATACAACTGATGAAGAAAGCAAGCAAAATCTGAGATCCC 240
 Db 1856 AAGCTCACAGAGATTATACAACTGATGAAGAAAGCAAGCAAAATCTGAGATCCC 1915
 Qy 241 TGAAGGTTCCGATGATGACAGTCCGTGTAACAAGACGTTTGAATACATGAACTTCAAGT 300
 Db 1916 TGAAGGTTCCGATGATGACAGTCCGTGTAACAAGACGTTTGAATACATGAACTTCAAGT 1975
 Qy 301 GGAAGTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTTGAAC 360
 Db 1976 GGAAGTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTTGAAC 2035
 Qy 361 AGTGAAGCGCTGCGACCTTTCTGAGAGAACTTCTGTGTGCTGCTCAGGTGAAGAGT 420
 Db 2036 AGTGAAGCGCTGCGACCTTTCTGAGAGAACTTCTGTGTGCTGCTCAGGTGAAGAGT 2095
 Qy 421 ATGAATTAAGCGCGCAGGCACTTAATGAGGCGACTTTCAGAGCTTCAAGAGCAGAAAGC 480
 Db 2096 ATGAATTAAGCGCGCAGGCACTTAATGAGGCGACTTTCAGAGCTTCAAGAGCAGAAAGC 2155
 Qy 481 ATGACATAGAGCGCTTCAAGAGGGAATGAAACTTAAGAACTGTATCATGAGTACTC 540
 Db 2156 ATGACATAGAGCGCTTCAAGAGGGAATGAAACTTAAGAACTGTATCATGAGTACTC 2215
 Qy 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGCTGAGAGAACTCTACC 600
 Db 2216 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGCTGAGAGAACTCTACC 2275
 Qy 601 AGGAGCCGAGAGAGCTCTCTGAGAGAGAGCCCAAAATGTCACTCGGCTTCTACGAA 660

Db 2276 AGGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCGAGAAATGTACTCGGCTTACGAA 2235
QY 661 AGCAGGCTGAGGAGGCTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 720
Db 2336 AGCAGGCTGAGGAGGCTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGC 2295
QY 721 AGAGAAAAATGATGAGAGCCCTTGAAAGACTCGAGAACTTCAAGAGGGCCACGAGTGAAC 780
Db 2396 AGAGAAAAATGATGAGAGCCCTTGAAAGACTCGAGAACTTCAAGAGGGCCACGAGTGAAC 2455
QY 781 TGAACCTCAAGCTGCGGCAAGCTGAGGTGATCAAGGATCTGCGAAGCCGCTGGGCGATC 840
Db 2456 TGAACCTCAAGCTGCGGCAAGCTGAGGTGATCAAGGATCTGCGAAGCCGCTGGGCGATC 2515
QY 841 TCCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAGAGAAATTG 900
Db 2516 TCCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGACTTTCGAGAGAAATTG 2575
QY 901 CGCCTCTGAAAGAGAACTGAGGCAAGTCATGACCTTGTGCGCAGTTTCAACTTTGG 960
Db 2576 CGCCTCTGAAAGAGAACTGAGGCAAGTCATGACCTTGTGCGCAGTTTCAACTTTGG 2635
QY 961 GCATTGAGCTCTCAACGGTAACTCACTGAGCACTTGGAAACCTGAAACACCAAGTGAAGC 1020
Db 2636 GCATTGAGCTCTCAACGGTAACTCACTGAGCACTTGGAAACCTGAAACACCAAGTGAAGC 2695
QY 1021 TTCTGAGGTGGCGCTGAGAGACCGAGTCAGGCAAGCTGATGAAGGCCACAGGACTTTG 1080
Db 2696 TTCTGAGGTGGCGCTGAGAGACCGAGTCAGGCAAGCTGATGAAGGCCACAGGACTTTG 2755
QY 1081 GTCCACATCTCAAGCACTTTCTTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCT 1140
Db 2756 GTCCACATCTCAAGCACTTTCTTTTCCAGCTCTGTCCAGGGTCCCTGGAGAGAGCCATCT 2815
QY 1141 CGCAGAAACAAGTGCCTCTATATCAACCAAGAGCTCAACCACTTGTGGGACATC 1200
Db 2816 CGCAGAAACAAGTGCCTCTATATCAACCAAGAGCTCAACCACTTGTGGGACATC 2875
QY 1201 CCAAAATGACAGAGCTCTACAGCTTTTAACTGACCTGAATATGTCAATTTCAAGCTT 1260
Db 2876 CCAAAATGACAGAGCTCTACAGCTTTTAACTGACCTGAATATGTCAATTTCAAGCTT 2935
QY 1261 ATAGAGCTGCCATGAACTCCGAGAACCTGCAAGAGGCCCTTGTGGATCTTTGAGCC 1320
Db 2936 ATAGAGCTGCCATGAACTCCGAGAACCTGCAAGAGGCCCTTGTGGATCTTTGAGCC 2995
QY 1321 TGTGAGCTGCAATGTATGCTTGGACAGCAAACTTCAAGCAAAATGACCAAGGCCATGG 1380
Db 2996 TGTGAGCTGCAATGTATGCTTGGACAGCAAACTTCAAGCAAAATGACCAAGGCCATGG 3055
QY 1381 ATATCTGCAATTAATTAATTTTGAACCACTATTTATGACCGCTGAGCAAGAGCA 1440
Db 3056 ATATCTGCAATTAATTAATTTTGAACCACTATTTATGACCGCTGAGCAAGAGCA 3115
QY 1441 ACAATTTGGTCAAGTCCCTCTGCGGATGATGTCTGGAATGGCTCTGTAATTTT 1500
Db 3116 ACAATTTGGTCAAGTCCCTCTGCGGATGATGTCTGGAATGGCTCTGTAATTTT 3175
QY 1501 A 1501
Db 3176 A 3176

RESULT 4
US-09-845-416-29

; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 99.9%; Score 1499.4; DB 10; Length 4825;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTCATAGATTCTCTGCAACAGTTCCTGAGACCTGGAAGTCTTCTGCTGCTTA 60
Db 2433 ACACCTCATAGATTCTCTGCAACAGTTCCTGAGACCTGGAAGTCTTCTGCTGCTTA 2492
QY 61 CAGAGCTGAAACCACTGCGCAATGTCTTACAGATGCTACCCGTAAGAAAGGCTCTAG 120
Db 2493 CAGAGCTGAAACCACTGCGCAATGTCTTACAGATGCTACCCGTAAGAAAGGCTCTAG 2552
QY 121 AAGACTCAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGCTTCAAGTGAATTG 180
Db 2553 AAGACTCAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGCTTCAAGTGAATTG 2612
QY 181 AAGCTCAACAGATGTTTATCACAACCTGATGAAACAGCCAAATAATCTGAGATCCC 240
Db 2613 AAGCTCAACAGATGTTTATCACAACCTGATGAAACAGCCAAATAATCTGAGATCCC 2672
QY 241 TGAAGGTTCCAGTATGCAAGTCTGTTTCAAGAGCTTTGATACATGAACCTTCAAGT 300
Db 2673 TGAAGGTTCCAGTATGCAAGTCTGTTTCAAGAGCTTTGATACATGAACCTTCAAGT 2732
QY 301 GGAAGTAACTTGGGAAAGAGTCTCTCAACATTAAGTCCATTTGGAAGCAGTTTCTGAC 360
Db 2733 GGAAGTAACTTGGGAAAGAGTCTCTCTCAACATTAAGTCCATTTGGAAGCAGTTTCTGAC 2792
QY 361 AGTGAAGGCTGTCACCTTTCTGACAGAACTTCTGATGAGCTTACAGCTGAAGATG 420
Db 2793 AGTGAAGGCTGTCACCTTTCTGACAGAACTTCTGATGAGCTTACAGCTGAAGATG 2852
QY 421 ATGAATTAAGCCGGAGAGACCTATTTGAGGCGACTTTTCAGCACTTCAAGAGCAAG 480
Db 2853 ATGAATTAAGCCGGAGAGACCTATTTGAGGCGACTTTTCAGCACTTCAAGAGCAAG 2912
QY 481 ATGTACATAGGCTCTTCAAGAGGAAATTGAACCTAAGAACTGTATCATAGTACTC 540
Db 2913 ATGTACATAGGCTCTTCAAGAGGAAATTGAACCTAAGAACTGTATCATAGTACTC 2972
QY 541 TTGAGACTGTAGAAATATTTTCTGACAGAGCAAGCTTTGAAAGACTAGAGAACTTACC 600
Db 2973 TTGAGACTGTAGAAATATTTTCTGACAGAGCAAGCTTTGAAAGACTAGAGAACTTACC 3032
QY 601 AGGAGCCAGAGAGTGTGCTCTGAGAGAGAGCCAGAAATGTCACTGCGCTTCTAGAA 660
Db 3033 AGGAGCCAGAGAGTGTGCTCTGAGAGAGAGCCAGAAATGTCACTGCGCTTCTAGAA 3092
QY 661 AGCAGGCTGAGAGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCGCTGACTGGC 720
Db 3093 AGCAGGCTGAGAGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCGCTGACTGGC 3152
QY 721 AGAGAAAAATGATGAGAGCCCTTGAAAGACTTCCAGAACTTCAAGAGGCCACGATAGC 780
Db 3153 AGAGAAAAATGATGAGAGCCCTTGAAAGACTTCCAGAACTTCAAGAGGCCACGATAGC 3212
QY 781 TGAACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCTTGGACGCGCTGGGCGATC 840
Db 3213 TGAACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCTTGGACGCGCTGGGCGATC 3272
QY 841 TCCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGCACTTTCGAGAGAAATTG 900

|||||
Db 3273 TCCTCATGACTCTCTCCAGATGACCTCGAAGAAAGTCAAGGCACTTCGAGAGAAATTG 3332
Qy 901 CGCCTCTGAAAGAAAGAGCTGAGCCACCTGCATAGACCTTGGCTCGCAGCTTACCACTTTG 960
Db 3333 CGCCTCTGAAAGAAAGAGCTGAGCCACCTGCATAGACCTTGGCTCGCAGCTTACCACTTTG 3392
Qy 961 GCATTGAGCTCTCACCGCTATTAACCTCAGACACTTGGAGAACTGAAACCAAGATGGAAGC 1020
Db 3393 GCATTGAGCTCTCACCGCTATTAACCTCAGACACTTGGAGAACTGAAACCAAGATGGAAGC 3452
Qy 1021 TTCTGCAAGTGGCCGTGAGAGACCGAGTCAGGCAAGCTTCATGAAGCCCAAGGACCTTTG 1080
Db 3453 TTCTGCAAGTGGCCGTGAGAGACCGAGTCAGGCAAGCTTCATGAAGCCCAAGGACCTTTG 3512
Qy 1081 GTCCAGACTCTCAGACACTTTCTTTCCAGAGTCTGTCTCAGAGGTCCTCGGAGAGAGCACT 1140
Db 3513 GTCCAGACTCTCAGACACTTTCTTTCCAGAGTCTGTCTCAGAGGTCCTCGGAGAGAGCACT 3572
Qy 1141 CGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAACCAACTGTGGGACATC 1200
Db 3573 CGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAACCAACTGTGGGACATC 3632
Qy 1201 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAAATATGTCAAGTCTCAGCTT 1260
Db 3633 CCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAAATATGTCAAGTCTCAGCTT 3692
Qy 1261 ATAGAGCTGCGCATGAAACTCCGAAAGCTGCGAAGAGCCCTTGTGATCTCTTGAAGC 1320
Db 3693 ATAGAGCTGCGCATGAAACTCCGAAAGCTGCGAAGAGCCCTTGTGATCTCTTGAAGC 3752
Qy 1321 TGTGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1380
Db 3753 TGTGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 3812
Qy 1381 ATATCTGAGATTAATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACACA 1440
Db 3813 ATATCTGAGATTAATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACACA 3872
Qy 1441 ACAATTTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1500
Db 3873 ACAATTTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 3932
Qy 1501 A 1501
Db 3933 A 3933

RESULT 5
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 99.9%; Score 1499.4; DB 10; Length 4848;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGACTCATAGATTACTGCACAGTTCCTCCCTGACCTGGAAGAAAGTTTCTTGCTGGCTTA 60
Db 2456 ACACCTCATAGATTACTGCACAGTTCCTCCCTGACCTGGAAGAAAGTTTCTTGCTGGCTTA 2515
Qy 61 CAGAAAGTGAACCACTGCGCAATGTCCTTACAGATGCTTACCCGTAAGAAAGGCTCTCAG 120
Db 2516 CAGAAAGTGAACCACTGCGCAATGTCCTTACAGATGCTTACCCGTAAGAAAGGCTCTCAG 2575
Qy 121 AAGACTCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAATTG 180
Db 2576 AAGACTCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAATTG 2635
Qy 181 AAGCTCACACAGATGTTTATATCAACACTGATGAAAAAGCCAAATAATCTCGAGATCC 240
Db 2636 AAGCTCACACAGATGTTTATATCAACACTGATGAAAAAGCCAAATAATCTCGAGATCC 2695
Qy 241 TGAAGGTTCCGATGATGACAGTCTGTTTACAAAGAGCTTTGGATTAACATGAACCTTCA 300
Db 2696 TGAAGGTTCCGATGATGACAGTCTGTTTACAAAGAGCTTTGGATTAACATGAACCTTCA 2755
Qy 301 GGAATGAACTTCGGAATAAGTCTCTCAACATTAAGTCCATTTGGAAGCCAGTCTGACC 360
Db 2756 GGAATGAACTTCGGAATAAGTCTCTCAACATTAAGTCCATTTGGAAGCCAGTCTGACC 2815
Qy 361 AGTGAAGAGCTCTGACACTTCTCTGCAAGAACTTGTGTGTGCTACAGCTGAAGATG 420
Db 2816 AGTGAAGAGCTCTGACACTTCTCTGCAAGAACTTGTGTGTGCTACAGCTGAAGATG 2875
Qy 421 ATGAATTAAGCCGCGACAGGACCTTATGGAAGCGACTTTCAGAGCTTCAGAAAGCAAG 480
Db 2876 ATGAATTAAGCCGCGACAGGACCTTATGGAAGCGACTTTCAGAGCTTCAGAAAGCAAG 2935
Qy 481 ATGTAATTAAGGCTTCAAGAGGGAATTGAAAACTAAGAAACCTGATCATGAGTACTC 540
Db 2936 ATGTAATTAAGGCTTCAAGAGGGAATTGAAAACTAAGAAACCTGATCATGAGTACTC 2995
Qy 541 TTGAGACTGTATGCAATATTTCTGACAGAGCAGCTTTGGAAGGACTGAGAAACTTAC 600
Db 2996 TTGAGACTGTATGCAATATTTCTGACAGAGCAGCTTTGGAAGGACTGAGAAACTTAC 3055
Qy 601 AGGAGCCGAGAGAGCTGCTCTCTGAGAGAGAGGCCAGATGTCACTGCTTCTAGAA 660
Db 3056 AGGAGCCGAGAGAGCTGCTCTCTGAGAGAGAGGCCAGATGTCACTGCTTCTAGAA 3115
Qy 661 AGCAGGCTGAGGAGTGAATTAAGTGGGAAAAATTGAACCTGACCTCGCTGAGTGGC 720
Db 3116 AGCAGGCTGAGGAGTGAATTAAGTGGGAAAAATTGAACCTGACCTCGCTGAGTGGC 3175
Qy 721 AGAGAAAAATGATGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCCACGATGAGC 780
Db 3176 AGAGAAAAATGATGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCCACGATGAGC 3235
Qy 781 TGAACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGAAATCTGCGACGCCGTGGCGATC 840
Db 3236 TGAACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGAAATCTGCGACGCCGTGGCGATC 3295
Qy 841 TCTCATTTGACTCTCTCAAGATACACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTG 900
Db 3296 TCTCATTTGACTCTCTCAAGATACACTCGAAGAAAGTCAAGGCACTTCGAGGAGAAATTG 3355
Qy 901 CGCCTCTGAAAGAAAGAGTGAAGCAGCTGATGAACTTGTCTGCGCAGCTTACCACTTTG 960
Db 3356 CGCCTCTGAAAGAAAGAGTGAAGCAGCTGATGAACTTGTCTGCGCAGCTTACCACTTTG 3415
Qy 961 GCATTGAGCTCTCACCGCTATTAACCTCAGACACTTGGAGAACTGAAACCAAGATGAAAGC 1020
Db 3416 GCATTGAGCTCTCACCGCTATTAACCTCAGACACTTGGAGAACTGAAACCAAGATGAAAGC 3475
Qy 1021 TTCTGCAAGTGGCCGTGAGAGACCGAGTCAGGCAAGCTTCGAGAAAGCCCAAGATGAAAGC 1080
Db 3476 TTCTGCAAGTGGCCGTGAGAGACCGAGTCAGGCAAGCTTCGAGAAAGCCCAAGATGAAAGC 3535
Qy 1081 GTCCAGACTCTCAGACACTTTCTTTCCAGAGTCTGTCCAGAGGTCCTCGGAGAGAGCCATCT 1140

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Db 3536 GTCCAGATCTCACACTTCTTCCAGTCTGTCAGGGTCCCTGGAGAGACCATCT 3595
Qy 1141 CGCCAAACAAAGTCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGACCATT 1200
Db 3596 CGCCAAACAAAGTCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGACCATT 3655
Qy 1201 CCAAAATGACAGAGCTCTACAGCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTT 1260
Db 3656 CCAAAATGACAGAGCTCTACAGCTTTAGCTGACCTGAATTAATGTCAGATTCTCAGCTT 3715
Qy 1261 ATGGAATGCGCAAGAACTCCGAAGACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCC 1320
Db 3716 ATGGAATGCGCAAGAACTCCGAAGACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCC 3775
Qy 1321 TGTGAGCTGATGATGCTTGGAGCAGACCAACCTCAAGAAATGACCAAGCCCATGG 1380
Db 3776 TGTGAGCTGATGATGCTTGGAGCAGACCAACCTCAAGAAATGACCAAGCCCATGG 3835
Qy 1381 ATATCTGCGAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACACA 1440
Db 3836 ATATCTGCGAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACACA 3895
Qy 1441 ACAATTTGGTCAAGCTCCCTCTGCGTGATATGTTGCTGAACTGGCTGTAATGTTT 1500
Db 3896 ACAATTTGGTCAAGCTCCCTCTGCGTGATATGTTGCTGAACTGGCTGTAATGTTT 3955
Qy 1501 A 1501
Db 3956 A 3956

RESULT 6
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 99.9%; Score 1499.4; DB 10; Length 5060;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGACTCATAGATTAAGTCAAGATTCCTGAGCCCTGGAAGAAAGTTCTTGCTGCTGCTTA 60
Db 2668 ACACCTCATAGATTAAGTCAAGATTCCTGAGCCCTGGAAGAAAGTTCTTGCTGCTGCTTA 2727
Qy 61 CAGAAAGTGAAGCAATGCGCAATGCTCTAGAGATGCTACCCGTAAAGAAAGGCTCTAG 120
Db 2728 CAGAAAGTGAAGCAATGCGCAATGCTCTAGAGATGCTACCCGTAAAGAAAGGCTCTAG 2787
Qy 121 AAGACTCAAGGGAGTAAAGAGTGTATGAAACAATGCGCAAGCTTCCAAAGTGAATTG 180
Db 2788 AAGACTCAAGGGAGTAAAGAGTGTATGAAACAATGCGCAAGCTTCCAAAGTGAATTG 2847
Qy 181 AAGCTCACAGATGTTTATCAACAACCTGATGAAACAGCCAAATAATCTGAGATCCC 240
Db 2848 AAGCTCACAGATGTTTATCAACAACCTGATGAAACAGCCAAATAATCTGAGATCCC 2907

Qy 241 TGAAGGTTCCGATGATCAGTCTGTTACAAAGAGCTTGGATTAACATGAATCTCAAGT 300
Db 2908 TGAAGGTTCCGATGATCAGTCTGTTACAAAGAGCTTGGATTAACATGAATCTCAAGT 2967
Qy 301 GGAAGTGAATCTTGGAAAAAGTCTCTCAACATTTAGGCTCCATTGGAAAGCCAGTTCTGACC 360
Db 2968 GGAAGTGAATCTTGGAAAAAGTCTCTCAACATTTAGGCTCCATTGGAAAGCCAGTTCTGACC 3027
Qy 361 AGTGAAGAGCTGTCGACCTTTCTCTGAGAGAACTTCTGATGCTGACGTCAGTGAAGATG 420
Db 3028 AGTGAAGAGCTGTCGACCTTTCTCTGAGAGAACTTCTGATGCTGACGTCAGTGAAGATG 3087
Qy 421 ATGAATTAAGCCGCGACAGCCTTAATTGAGCGCACTTTCCAGCATTCAGAGACAGAAACG 480
Db 3088 ATGAATTAAGCCGCGACAGCCTTAATTGAGCGCACTTTCCAGCATTCAGAGACAGAAACG 3147
Qy 481 ATGTACATAGGGCTTTCAGAGAGGAATTGAATTAAGAACTGATTAATGATAGTACTC 540
Db 3148 ATGTACATAGGGCTTTCAGAGAGGAATTGAATTAAGAACTGATTAATGATAGTACTC 3207
Qy 541 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTAC 600
Db 3208 TTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTAC 3267
Qy 601 AGAGCCCGAGAGAGCTGCTCTGAGAGAGAGACCCAGAAATGTCATCTCGGCTTTCTAGAA 660
Db 3268 AGAGCCCGAGAGAGCTGCTCTGAGAGAGAGACCCAGAAATGTCATCTCGGCTTTCTAGAA 3327
Qy 661 AGCAGGCTGAGAGAGTCAATACTGATGGGAAAAATTTGAACCTGCACTCGGCTGATGAC 720
Db 3328 AGCAGGCTGAGAGAGTCAATACTGATGGGAAAAATTTGAACCTGCACTCGGCTGATGAC 3387
Qy 721 AGAGAAAAATAGATGAGAGACCTTTGAAAGACTCCAGGAATCTTAAGAGCCACGATGAGC 780
Db 3388 AGAGAAAAATAGATGAGAGACCTTTGAAAGACTCCAGGAATCTTAAGAGCCACGATGAGC 3447
Qy 781 TGAAGCTCAAGCTGCGCCCAAGCTGAGGTATCAAGGATCTCGGAGACCCGCGGCGATC 840
Db 3448 TGAAGCTCAAGCTGCGCCCAAGCTGAGGTATCAAGGATCTCGGAGACCCGCGGCGATC 3507
Qy 841 TCTCTATTGACTCTCTCCAAAGTCACTTGAGAAAGTCAAGGCACTTGAGAGAGAAATTG 900
Db 3508 TCTCTATTGACTCTCTCCAAAGTCACTTGAGAAAGTCAAGGCACTTGAGAGAGAAATTG 3567
Qy 901 CGCCTCTGAAAGAGAACTGAGACCACTCAATGACCTTCTGCGCACTTACACTTTGG 960
Db 3568 CGCCTCTGAAAGAGAACTGAGACCACTCAATGACCTTCTGCGCACTTACACTTTGG 3627
Qy 961 GCATTCAGCTCTACCGTATTAACCTCAGACACTTGAAGACCTGAACACAGATGAAGC 1020
Db 3628 GCATTCAGCTCTACCGTATTAACCTCAGACACTTGAAGACCTGAACACAGATGAAGC 3687
Qy 1021 TTCTGAGGTGCGCTGACAGACCGAGTCAAGGCTGTCATGAAGCCCAAGGACCTTTG 1080
Db 3688 TTCTGAGGTGCGCTGACAGACCGAGTCAAGGCTGTCATGAAGCCCAAGGACCTTTG 3747
Qy 1081 GTCCAGCATCTCAGACATTTCTTTCCAGCTGTGTCAGAGGTCCTTGGGAGAGACCAATC 1140
Db 3748 GTCCAGCATCTCAGACATTTCTTTCCAGCTGTGTCAGAGGTCCTTGGGAGAGACCAATC 3807
Qy 1141 CGCCAAACAAAGTCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGACCATC 1200
Db 3808 CGCCAAACAAAGTCCCTACTATATCAACCAAGACTCAAAACAATTGCTGGACCATC 3867
Qy 1201 CCAAAATGACAGAGCTCTACAGCTTTAGTGTGACCTGAATTAATGTCAGATTCTCAGCTT 1260
Db 3868 CCAAAATGACAGAGCTCTACAGCTTTAGTGTGACCTGAATTAATGTCAGATTCTCAGCTT 3927
Qy 1261 ATGAGACTGCGCATGAAATCTCGAAGACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCC 1320
Db 3928 ATGAGACTGCGCATGAAATCTCGAAGACTGCAAGAGCCCTTTGCTTGGATCTTTGAGCC 3987
Qy 1321 TGTGAGCTGATGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGG 1380
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|||||
Db 3988 TGTGAGCTGATGATGCTTGACACGACCAACCTCAAGCAAAATGACCGCCATG 4047
Qy 1381 ATATCCCTGACATTTTAAATTTGTTGACCACTATTATGACCGCTGAGCAAGACCA 1440
Db 4048 ATATCTTCAGATTATTAATTTGTTGACCACTATTATGACCGCTGAGCAAGACCA 4107
Qy 1441 ACAATTTGCTGACACCTCTCTGCTGATGATGCTGTAATGCTGCTGTAATGTT 1500
Db 4108 ACAATTTGCTGACACCTCTCTGCTGATGATGCTGTAATGCTGCTGTAATGTT 4167
Qy 1501 A 1501
Db 4168 A 4168

RESULT 7
US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dysetrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match 99.9%; Score 1499.4; DB 17; Length 8689;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGACTCATGATTTACTGCAACAGTTCCCTGACCTGCAAAAGTTTCTTGCTGCTTGA 60
Db 2997 AAATCTCATGATTTACTGCAACAGTTCCCTGACCTGCAAAAGTTTCTTGCTGCTTGA 3056
Qy 61 CAGAAGCTGGAACCACTGCAATGCTCTACAGATGCTACCCGTAAGGAAAGGCTCTAG 120
Db 3057 CAGAAGCTGGAACCACTGCAATGCTCTACAGATGCTACCCGTAAGGAAAGGCTCTAG 3116
Qy 121 AAGACTCCAAAGAGTAAGAGAGTGAATGAACAATGCGAAGACCTCCAAAGTGAATTTG 180
Db 3117 AAGACTCCAAAGAGTAAGAGAGTGAATGAACAATGCGAAGACCTCCAAAGTGAATTTG 3176
Qy 181 AAGCTCACACAGATTTTATCAACACTGATGAAACAGCCAAATAATCTGAGATCCC 240
Db 3177 AAGCTCACACAGATTTTATCAACACTGATGAAACAGCCAAATAATCTGAGATCCC 3236
Qy 241 TGGAAAGTTCCGATGATGACGCTCTGTATCAAAAGCGTTGGATTAACATGAACCTCAAGT 300
Db 3237 TGGAAAGTTCCGATGATGACGCTCTGTATCAAAAGCGTTGGATTAACATGAACCTCAAGT 3296
Qy 301 GGAAGTGAACCTTCGAAAAGTCTCTCAACATTAGGTCCCATTTGGAGCCAGTTCTGACC 360
Db 3297 GGAAGTGAACCTTCGAAAAGTCTCTCAACATTAGGTCCCATTTGGAGCCAGTTCTGACC 3356
Qy 361 AGTGAAGCGTCTGACCTTTCTCTGCAAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Db 3357 AGTGAAGCGTCTGACCTTTCTCTGCAAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 3416

Qy 421 ATGAATTAAGCCGAGGACCACTATTTGAGGCGACTTTTCAGAGTTTCAGAGCAAGCA 480
Db 3417 ATGAATTAAGCCGAGGACCACTATTTGAGGCGACTTTTCAGAGTTTCAGAGCAAGCA 3476
Qy 481 ATGTTCATAGGCGCTTCAAGAGGGAATTTGAATACTAAAGAACTGTATCATAGACTTC 540
Db 3477 ATGTTCATAGGCGCTTCAAGAGGGAATTTGAATACTAAAGAACTGTATCATAGACTTC 3536
Qy 541 TTGAGACTGTGCAATATTTTTCGACAGAGCGCTTTGGAAGGACTAGAGAACTCTACC 600
Db 3537 TTGAGACTGTGCAATATTTTTCGACAGAGCGCTTTGGAAGGACTAGAGAACTCTACC 3596
Qy 601 AGAGCCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGATGTCACTCGGCTTCTACGA 660
Db 3597 AGAGCCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGATGTCACTCGGCTTCTACGA 3656
Qy 661 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTTGAACCTTGACCTCGCTGACTGCG 720
Db 3657 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTTGAACCTTGACCTCGCTGACTGCG 3716
Qy 721 AGAGAAAAATGATGAGACCTTGAAAGACTCCAGAACTTCAAGAGGCGACGAGTGGAGC 780
Db 3717 AGAGAAAAATGATGAGACCTTGAAAGACTTCAGAACTTCAAGAGGCGACGAGTGGAGC 3776
Qy 781 TGAACCTCAAGCTGCGCCAGCTGAGTGAATCAAGAGATCTCGGACGCGTGGCGATC 840
Db 3777 TGAACCTCAAGCTGCGCCAGCTGAGTGAATCAAGAGATCTCGGACGCGTGGCGATC 3836
Qy 841 TCTCATTTGACTCTCTCCAGATCACTCGAAGAAATGCAAGGCACTTTCGAGAGAAATTG 900
Db 3837 TCTCATTTGACTCTCTCCAGATCACTCGAAGAAATGCAAGGCACTTTCGAGAGAAATTG 3896
Qy 901 CGCCTTGAAAGAGAGAGTGAAGCCAGCTCAATGACCTTGCTGCGCAGCTTTCACCTTTGG 960
Db 3897 CGCCTTGAAAGAGAGAGTGAAGCCAGCTCAATGACCTTGCTGCGCAGCTTTCACCTTTGG 3956
Qy 961 GCATTCAGCTCTCAACCTGATTAACCTCAAGCACTCTGAAAGCCTGAAACCAAGATGAGAC 1020
Db 3957 GCATTCAGCTCTCAACCTGATTAACCTCAAGCACTCTGAAAGCCTGAAACCAAGATGAGAC 4016
Qy 1021 TTCTGACAGTGGCGGTGAGGACGAGTCAAGGCACTGATGAAAGCCCAAGGACCTTTG 1080
Db 4017 TTCTGACAGTGGCGGTGAGGACGAGTCAAGGCACTGATGAAAGCCCAAGGACCTTTG 4076
Qy 1081 GTCCAGACATCCAGACCTTTCTTCCACGCTGCTGCGAGGCTCCCTGGAGAGAGCATCT 1140
Db 4077 GTCCAGACATCCAGACCTTTCTTCCACGCTGCTGCGAGGCTCCCTGGAGAGAGCATCT 4136
Qy 1141 CGCCAAACAAAGTCCCTACTATATCAACAGAGACTCAAAACAATTGCTGGAGCATC 1200
Db 4137 CGCCAAACAAAGTCCCTACTATATCAACAGAGACTCAAAACAATTGCTGGAGCATC 4196
Qy 1201 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAAATTAATGCTGAGTTCAGCTT 1260
Db 4197 CCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAAATTAATGCTGAGTTCAGCTT 4256
Qy 1261 ATAGAGCTGCAATAAACTCCGAAAGCTGCAAGAGGCCCTTTGCTGTAATCTCTTGAGCC 1320
Db 4257 ATAGAGCTGCAATAAACTCCGAAAGCTGCAAGAGGCCCTTTGCTGTAATCTCTTGAGCC 4316
Qy 1321 TGTGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1380
Db 4317 TGTGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 4376
Qy 1381 ATATCTGACAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGAGAGAGCA 1440
Db 4377 ATATCTGACAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGAGAGAGCA 4436
Qy 1441 ACAATTTGCTCAACGCTCTCTCTGCGTGAATAGTGTCTGAACTGCTGCTGTAATGTT 1500
Db 4437 ACAATTTGCTCAACGCTCTCTCTGCGTGAATAGTGTCTGAACTGCTGCTGTAATGTT 4496
Qy 1501 A 1501

Db 4497 A 4497

RESULT 8
US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 99.9%; Score 1499.4; DB 10; Length 11058;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGACTAGATGATTAAGCAAGTCCCTGGAAGTCTTGGCTGCTTA 60
Db 8057 AAACATGATGATTAAGCAAGTCCCTGGAAGTCTTGGCTGCTTA 60
QY 61 CGAAGCTGAAACCAATGCTGCTTAAGAGTCTTGGCTGCTTA 120
Db 8117 CGAAGCTGAAACCAATGCTGCTTAAGAGTCTTGGCTGCTTA 120
QY 121 AAGACTCCAAGGAGTAAGAGTCTGATGAAACCAATGCTGCTTA 180
Db 8177 AAGACTCCAAGGAGTAAGAGTCTGATGAAACCAATGCTGCTTA 180
QY 181 AAGCTCAACAATGCTGCTTAAGAGTCTTGGCTGCTTA 240
Db 8237 AAGCTCAACAATGCTGCTTAAGAGTCTTGGCTGCTTA 240
QY 241 TGAAGGTTCCGATGATGCTGCTTAAGAGTCTTGGCTGCTTA 300
Db 8297 TGAAGGTTCCGATGATGCTGCTTAAGAGTCTTGGCTGCTTA 300
QY 301 GGAAGTGAACCTGGAAGAGTCTTCAACATTAAGTCTTGGCTGCTTA 360
Db 8357 GGAAGTGAACCTGGAAGAGTCTTCAACATTAAGTCTTGGCTGCTTA 360
QY 361 AGTGAACGCTGCTGCAAGTCTTCAACATTAAGTCTTGGCTGCTTA 420
Db 8417 AGTGAACGCTGCTGCAAGTCTTCAACATTAAGTCTTGGCTGCTTA 420
QY 421 ATGAATTAAGCGGAGGCACTTAATGAGGCACTTCCAGGCTTCAAGGCA 480
Db 8477 ATGAATTAAGCGGAGGCACTTAATGAGGCACTTCCAGGCTTCAAGGCA 480
QY 481 ATGAATTAAGCGGCTTCAAGGCACTTCCAGGCTTCAAGGCA 540
Db 8537 ATGAATTAAGCGGCTTCAAGGCACTTCCAGGCTTCAAGGCA 540
QY 541 TTGAAGCTGTAAGATTTCTGACAGAGGCTTGGAGGATGAGGATGAGG 600
Db 8597 TTGAAGCTGTAAGATTTCTGACAGAGGCTTGGAGGATGAGGATGAGG 600
QY 601 AGGAGCCCAAGAGGCTGCTTCAAGGAGAGGCTTCAAGGATGAGGATGAGG 660
Db 8657 AGGAGCCCAAGAGGCTGCTTCAAGGAGAGGCTTCAAGGATGAGGATGAGG 660

QY 661 AGCAGCTGAGAGGCTCAATCTGAGTGGAAAAATGAACTGCACTGCTGCTGCTG 720
Db 8717 AGCAGCTGAGAGGCTCAATCTGAGTGGAAAAATGAACTGCACTGCTGCTGCTGCTG 720
QY 721 AGAAGAAAAATGATGAGGCTTGAAGAGCTTCAAGGATGAGGATGAGG 780
Db 8777 AGAAGAAAAATGATGAGGCTTGAAGAGCTTCAAGGATGAGGATGAGG 780
QY 781 TGAAGCTGAGGCTGAGGCTGAGGATGAGGATGAGGATGAGGATGAGG 840
Db 8837 TGAAGCTGAGGCTGAGGCTGAGGATGAGGATGAGGATGAGGATGAGG 840
QY 841 TCTGATGATGCTTCTTCAAGATGATGATGAGGATGAGGATGAGGATGAGG 900
Db 8897 TCTGATGATGCTTCTTCAAGATGATGATGAGGATGAGGATGAGGATGAGG 900
QY 901 CGCCTGTAAGAGAGAGTGAAGGCACTGCAAGGCTTGGCTGCTGCTGCTGCTG 960
Db 8957 CGCCTGTAAGAGAGAGTGAAGGCACTGCAAGGCTTGGCTGCTGCTGCTGCTG 960
QY 961 GCATTCAGCTCTCAAGGATGATGATGAGGATGAGGATGAGGATGAGGATGAGG 1020
Db 9017 GCATTCAGCTCTCAAGGATGATGATGAGGATGAGGATGAGGATGAGGATGAGG 1020
QY 1021 TTTGCAAGGTTGCGCTGAGGATGAGGATGAGGATGAGGATGAGGATGAGG 1080
Db 9077 TTTGCAAGGTTGCGCTGAGGATGAGGATGAGGATGAGGATGAGGATGAGG 1080
QY 9077 TTTGCAAGGTTGCGCTGAGGATGAGGATGAGGATGAGGATGAGGATGAGG 1080
Db 9137 GTCCAGATCTCAGCACTTCTTCAAGGCTGCTGCAAGGCTTGGCTGCTGCTGCTG 1140
QY 1141 CGCCAAACCAAGGCTTCAAGGATGATGAGGATGAGGATGAGGATGAGGATGAGG 1200
Db 9197 CGCCAAACCAAGGCTTCAAGGATGATGAGGATGAGGATGAGGATGAGGATGAGG 1200
QY 1201 CCAAAATGACAGGCTCTCAAGGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1260
Db 9257 CCAAAATGACAGGCTCTCAAGGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1260
QY 1261 ATAGGATGCTGATGAACTTCAAGGATGAGGATGAGGATGAGGATGAGGATGAGG 1320
Db 9317 ATAGGATGCTGATGAACTTCAAGGATGAGGATGAGGATGAGGATGAGGATGAGG 1320
QY 1321 TGTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1380
Db 9377 TGTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1380
QY 1381 ATATCTGCAATTAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1440
Db 9437 ATATCTGCAATTAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1440
QY 1441 ACAATTTGCTCAAGGCTTCTGAGGATGAGGATGAGGATGAGGATGAGGATGAGGATGAGG 1500
Db 9497 ACAATTTGCTCAAGGCTTCTGAGGATGAGGATGAGGATGAGGATGAGGATGAGGATGAGG 1500
QY 1501 A 1501
Db 9557 A 9557

RESULT 9
US-10-149-736-44
; Sequence 44, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott O.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: US-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126

PRIOR FILING DATE: 2001-10-04
PRIOR APPLICATION NUMBER: 60/238,848
PRIOR FILING DATE: 2000-10-06
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn version 3.1
SEQ ID NO 44
LENGTH: 11443
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic
US-10-149-736-44

Query March 99.9%; Score 1499.4; DB 17; Length 11443;

Best Local Similarity 99.9%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 1500; Conservative 0;

Qy 1 AGACTCATAGATTCTGCAAGTTCCTCCCTGCACTTGAAAAGTTTCTGCTGGCTTA 60
Db 5751 AAATCTATGATTCTGCAAGTTCCTCCCTGCACTTGAAAAGTTTCTGCTGGCTTA 5810
Qy 61 CAGAACTGAAACCACTGCAATGCTCTACAGATGCTACCCGTAAGAAAGCTCTAG 120
Db 5811 CAGAACTGAAACCACTGCAATGCTCTACAGATGCTACCCGTAAGAAAGCTCTAG 5870
Qy 121 AAGACTCAAGAGAGTAAAGAGCTGATGAAACCAATGGCAAGCTCCAGGTGAATG 180
Db 5871 AAGACTCAAGAGAGTAAAGAGCTGATGAAACCAATGGCAAGCTCCAGGTGAATG 5930
Qy 181 AAGCTCACACAGATGTTTATGCAACCTGATGAAACAGCCAAATAATCTGAGATCC 240
Db 5931 AAGCTCACACAGATGTTTATGCAACCTGATGAAACAGCCAAATAATCTGAGATCC 5990
Qy 241 TGGAAAGTTCGATGATGCAATGCTGTTTACAAAGCTTTGGATTAATGAACTTCAAGT 300
Db 5991 TGGAAAGTTCGATGATGCAATGCTGTTTACAAAGCTTTGGATTAATGAACTTCAAGT 6050
Qy 301 GGAATGAACTTCGAAAGAGTCTGCAACATTAAGTCCATTTGGAAGCGAGTTCTGACC 360
Db 6051 GGAATGAACTTCGAAAGAGTCTGCAACATTAAGTCCATTTGGAAGCGAGTTCTGACC 6110
Qy 361 AGTGAAGAGCTCTGCACTTCTGCAAGAACTTGTGTGCTACAGCTGAAGATG 420
Db 6111 AGTGAAGAGCTCTGCACTTCTGCAAGAACTTGTGTGCTACAGCTGAAGATG 6170
Qy 421 ATGAATTAAGCCGCGACGACCTTAATGAGGCGAATTTCCAGAGTTCAAGACGAACG 480
Db 6171 ATGAATTAAGCCGCGACGACCTTAATGAGGCGAATTTCCAGAGTTCAAGACGAACG 6230
Qy 481 ATGTAATTAAGGCGCTTCAAGAGGGAATGAAACCTAAAGAACTGATATGAGTACTC 540
Db 6231 ATGTAATTAAGGCGCTTCAAGAGGGAATGAAACCTAAAGAACTGATATGAGTACTC 6290
Qy 541 TTGAGACTGTACGATAATTTCTGACAGAGCAGCTTTGGAAGAGCTAGAGAACTTACC 600
Db 6291 TTGAGACTGTACGATAATTTCTGACAGAGCAGCTTTGGAAGAGCTAGAGAACTTACC 6350
Qy 601 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTGCGCTTCAAGAA 660
Db 6351 AGAGCCCAAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTGCGCTTCAAGAA 6410
Qy 661 AGAGGCTGAGAGAGTCAATTAATGAGTGGGAAAAATTTGAACCTCACTCCGCTGATGCG 720
Db 6411 AGAGGCTGAGAGAGTCAATTAATGAGTGGGAAAAATTTGAACCTCACTCCGCTGATGCG 6470
Qy 721 AGAGAAAAATAGATGAGAGCTCTTGAAGAAGCTCCAGAACTTCAAGAGCCAGATGAGC 780
Db 6471 AGAGAAAAATAGATGAGAGCTCTTGAAGAAGCTCCAGAACTTCAAGAGCCAGATGAGC 6530
Qy 781 TGAAGCTCAAGCTCGCCAGCTGAGTGAAGGATCTTGGAGCGCTGGCGCATC 840
Db 6531 TGAAGCTCAAGCTCGCCAGCTGAGTGAAGGATCTTGGAGCGCTGGCGCATC 6590

Qy 841 TCCTCATGACTCTCTCCAAAGATCAGCTCGAAGAAAGTCAAGGCACTTGCAGAGAAATTG 900
Db 6591 TCCTCATGACTCTCTCCAAAGATCAGCTCGAAGAAAGTCAAGGCACTTGCAGAGAAATTG 6650
Qy 901 CGCTCTGAAAGAGAGAGTGAAGCAAGTCAATGACCTTGTGCGCAGCTTACCTTTGG 960
Db 6651 CGCTCTGAAAGAGAGAGTGAAGCAAGTCAATGACCTTGTGCGCAGCTTACCTTTGG 6710
Qy 961 GCATTGAGCTCTGACCGTATTAAGCTCAAGCACTCGAAGAGCTGAACCAAGATGGAAGC 1020
Db 6711 GCATTGAGCTCTGACCGTATTAAGCTCAAGCACTCGAAGAGCTGAACCAAGATGGAAGC 6770
Qy 1021 TTCTGCAAGTGGCGCTGAGAGAGCAAGTCAAGGCAAGCTGATGAAGCCCAAGGACTTTG 1080
Db 6771 TTCTGCAAGTGGCGCTGAGAGAGCAAGTCAAGGCAAGCTGATGAAGCCCAAGGACTTTG 6830
Qy 1081 GTCCAGATCTCAGACACTTCTTTTCAAGTGTGTCAGAGGTCCCTGGAGAGAGCCATCT 1140
Db 6831 GTCCAGATCTCAGACACTTCTTTTCAAGTGTGTCAGAGGTCCCTGGAGAGAGCCATCT 6890
Qy 1141 CGCCAAACAAAGTCCCTACTATATCAACCAAGAGCTCAAAACAACTTGTGGGAGCATC 1200
Db 6891 CGCCAAACAAAGTCCCTACTATATCAACCAAGAGCTCAAAACAACTTGTGGGAGCATC 6950
Qy 1201 CCAAAATGACAGAGCTCTACCAAGCTTTAGCTGACTGAATTAATGAGATTCAGCTT 1260
Db 6951 CCAAAATGACAGAGCTCTACCAAGCTTTAGCTGACTGAATTAATGAGATTCAGCTT 7010
Qy 1261 ATAGAGCTGCGCATGAACTCCGAAGAGCTGCAAGAGGCCCTTGTGATCTTTGAGCC 1320
Db 7011 ATAGAGCTGCGCATGAACTCCGAAGAGCTGCAAGAGGCCCTTGTGATCTTTGAGCC 7070
Qy 1321 TGTGAGCTGATGAGAGCTTGTGACAGACCAACCTCAAGCAAAATGACAGGCCATGG 1380
Db 7071 TGTGAGCTGATGAGAGCTTGTGACAGACCAACCTCAAGCAAAATGACAGGCCATGG 7130
Qy 1381 ATATCTGCAAGATTAATTTGTTTGAACAATATTAATGACCGCTGAGAGAGAGCA 1440
Db 7131 ATATCTGCAAGATTAATTTGTTTGAACAATATTAATGACCGCTGAGAGAGAGCA 7190
Qy 1441 ACAATTTGTCACAGTCCCTCTGCGGTGATATGTGTGAACTGCTGCTGAATGTTT 1500
Db 7191 ACAATTTGTCACAGTCCCTCTGCGGTGATATGTGTGAACTGCTGCTGAATGTTT 7250
Qy 1501 A 1501
Db 7251 A 7251

RESULT 10
US-10-149-736-47
Sequence 47, Application US/10149736
Publication No. US20030216332A1
GENERAL INFORMATION:
APPLICANT: Chamberlain, Jeffrey S.
TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
FILE REFERENCE: UM-06968
CURRENT APPLICATION NUMBER: US/10/149,736
PRIOR FILING DATE: 2002-06-17
PRIOR APPLICATION NUMBER: PCT/US01/31126
PRIOR FILING DATE: 2001-10-04
PRIOR FILING DATE: 2000-10-06
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn version 3.1
SEQ ID NO 47
LENGTH: 12057
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic
US-10-149-736-47

Query Match 99.9%; Score 1499.4; DB 17; Length 12057;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 AGACTATGATTAAGTCAAGTCCCTGAGCTGGAAGATTTCTGCTGCTTA 60
DB 8265 AAATCTATGATTAAGTCAAGTCCCTGAGCTGGAAGATTTCTGCTGCTTA 8324
QY 61 CAGAAAGTGAAGAACTGCGCAATGCTCTAGAGATGTAACCGTAAGAAAGGCTCTAG 120
DB 8325 CAGAAAGTGAAGAACTGCGCAATGCTCTAGAGATGTAACCGTAAGAAAGGCTCTAG 8384
QY 121 AAGATCTCAAGGAGATTAAGAGCTGATGAACATGAGCAAGCTCAAGGTAATG 180
DB 8385 AAGATCTCAAGGAGATTAAGAGCTGATGAACATGAGCAAGCTCAAGGTAATG 8444
QY 181 AAGCTCAAGAGATGTTTATCAACCTGATGAAGAAAGCCAAATAATCTGAGATCC 240
DB 8445 AAGCTCAAGAGATGTTTATCAACCTGATGAAGAAAGCCAAATAATCTGAGATCC 8504
QY 241 TGAAGGTTCCGATGATGAGTCTGTTTCAAGAGCTTGAATTAATGATCACTTCAAGT 300
DB 8505 TGAAGGTTCCGATGATGAGTCTGTTTCAAGAGCTTGAATTAATGATCACTTCAAGT 8564
QY 301 GAGGTAACTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGAGC 360
DB 8565 GAGGTAACTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGAGC 8624
QY 361 AAGTGAAGGCTGAGCACTTTCTGAGAGAACTTCTGATGCTTACAGCTGAAGATG 420
DB 8625 AAGTGAAGGCTGAGCACTTTCTGAGAGAACTTCTGATGCTTACAGCTGAAGATG 8684
QY 421 ATGAATTAAGCCGAGGACCTTATGAGGCACTTTCAGAGATTGAGAGAGAGAG 480
DB 8685 ATGAATTAAGCCGAGGACCTTATGAGGCACTTTCAGAGATTGAGAGAGAGAG 8744
QY 481 ATGTACATAGGCGCTTCAAGAGAGAAATGAAATCTTAATCAATGATGATCTC 540
DB 8745 ATGTACATAGGCGCTTCAAGAGAGAAATGAAATCTTAATCAATGATGATCTC 8804
QY 541 TTGAGACTGTATGAAATATTTCTGACAGAGAGCTTTGGAAGGAGCTGAGAACTTAC 600
DB 8805 TTGAGACTGTATGAAATATTTCTGACAGAGAGCTTTGGAAGGAGCTGAGAACTTAC 8864
QY 601 AGAGGCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTAGAA 660
DB 8865 AGAGGCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTAGAA 8924
QY 661 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATGAACTTCAAGAGGAGAGATGAG 720
DB 8925 AGCAGGCTGAGAGAGTCAATCTGAGTGGGAAAAATGAACTTCAAGAGGAGAGATGAG 8984
QY 721 AGAAGAAATATGATGAGAGCTTTGAAAAAGCTCCAGAACTTCAAGAGGAGAGATGAG 780
DB 8985 AGAAGAAATATGATGAGAGCTTTGAAAAAGCTCCAGAACTTCAAGAGGAGAGATGAG 9044
QY 781 TGAAGCTCAAGGCTGCGCAAGCTGAGTGAATCAAGGAGATCTTGAGAGCCCTGAGCGATC 840
DB 9045 TGAAGCTCAAGGCTGCGCAAGCTGAGTGAATCAAGGAGATCTTGAGAGCCCTGAGCGATC 9104
QY 841 TCTCATTTGATCTCTCTCAAGATCACTCGAAGAAAGTCAAGGAGATCTGAGAGAAATG 900
DB 9105 TCTCATTTGATCTCTCTCAAGATCACTCGAAGAAAGTCAAGGAGATCTGAGAGAAATG 9164
QY 901 CGCCTCTGAAGAGAGAGTGAAGCAAGTCAATGACCTTGTCTGCGCACTTACCACTTTG 960
DB 9165 CGCCTCTGAAGAGAGAGTGAAGCAAGTCAATGACCTTGTCTGCGCACTTACCACTTTG 9224
QY 961 GCATTGAGCTCTACCGTATACCTCAAGCACTGAGAAAGCTGAGACCAATGAGAG 1020
DB 9225 GCATTGAGCTCTACCGTATACCTCAAGCACTGAGAAAGCTGAGACCAATGAGAG 9284
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QY 1021 TTCTCAGGTGCGCTGAGAGACGAGTCAAGAGCTGATGAAGCCACAGGACTTTG 1080
DB 9285 TTCTCAGGTGCGCTGAGAGACGAGTCAAGAGCTGATGAAGCCACAGGACTTTG 9344
QY 1081 GTTCAGCATCTCAGACATTTCTTTTCACAGTGTCTTCAGAGGCTCTGAGAGACCAATC 1140
DB 9345 GTTCAGCATCTCAGACATTTCTTTTCACAGTGTCTTCAGAGGCTCTGAGAGACCAATC 9404
QY 1141 CGCCAAACAAAGTGCCCTATATATCAACAGAGAGCTCAACAACTTGTGCTGGAGCATC 1200
DB 9405 CGCCAAACAAAGTGCCCTATATATCAACAGAGAGCTCAACAACTTGTGCTGGAGCATC 9464
QY 1201 CCAAAATGACAGAGCTTCAACAGTCTTTAGCTGAATTAATGATGATGATTCAGCTT 1260
DB 9465 CCAAAATGACAGAGCTTCAACAGTCTTTAGCTGAATTAATGATGATGATTCAGCTT 9524
QY 1261 ATAGAGCTGCGATGAATCTCGAAGAGCTGAGAGAGCCCTTTGCTGGATCTTGAAGC 1320
DB 9525 ATAGAGCTGCGATGAATCTCGAAGAGCTGAGAGAGCCCTTTGCTGGATCTTGAAGC 9584
QY 1321 TGTCACTGATGATGATGCTTGGACCAAGCAACCTCAAGCAAAATGACAGCCCATG 1380
DB 9585 TGTCACTGATGATGATGCTTGGACCAAGCAACCTCAAGCAAAATGACAGCCCATG 9644
QY 1381 ATATCTGCGATTAATTAATTTTGAACCACTATTTATGACCGCTGAGAGAGACACA 1440
DB 9645 ATATCTGCGATTAATTAATTTTGAACCACTATTTATGACCGCTGAGAGAGACACA 9704
QY 1441 ACAATTTGTCACAGTCCCTCTGCGGTGATATGATGTCGAATGAGCTGATGATTT 1500
DB 9705 ACAATTTGTCACAGTCCCTCTGCGGTGATATGATGTCGAATGAGCTGATGATTT 9764
QY 1501 A 1501
DB 9765 A 9765
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RESULT 11
US-09-782-378A-22
; Sequence 22, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandelson, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patencin version 3.0
; SEQ ID NO 22
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-22
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Query Match 99.9%; Score 1499.4; DB 9; Length 13957;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 AGACTATGATTAAGTCAAGTCCCTGAGCTGGAAGATTTCTGCTGCTTA 60
DB 8265 AAATCTATGATTAAGTCAAGTCCCTGAGCTGGAAGATTTCTGCTGCTTA 8324
QY 61 CAGAAAGTGAAGAACTGCGCAATGCTCTAGAGATGTAACCGTAAGAAAGGCTCTAG 120
DB 8325 CAGAAAGTGAAGAACTGCGCAATGCTCTAGAGATGTAACCGTAAGAAAGGCTCTAG 8384
QY 121 AAGATCTCAAGGAGATTAAGAGCTGATGAACATGAGCAAGCTCAAGGTAATG 180
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Db 8385 AAGCTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGTGAATTTG 8444
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Db 8445 AAGCTCACAGAGATGTTTATACAAACCTGGATGAAAAACGCCAAAAAATCTTGAGATCCC 8504
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Db 8505 TGGAAAGGTTCCGATGATGACAGTCTGTATACAAAGAGCTTTGGATTAACATGAATCTCAAGT 8564
Qy 301 GGAAGTGAATCTTCGAAAAAGTCTCTCAACATTTAGGTCCCATTTGGAAAGCCAGTTCTGACC 360
Db 8565 GGAAGTGAATCTTCGAAAAAGTCTCTCAACATTTAGGTCCCATTTGGAAAGCCAGTTCTGACC 8624
Qy 361 AGTGGAAAGCGCTTCGACACTTTCTCTGCAAGAACTTTGGTGGCTACAGCTGAAGAAATG 420
Db 8625 AGTGGAAAGCGCTTCGACACTTTCTCTGCAAGAACTTTGGTGGCTACAGCTGAAGAAATG 8684
Qy 421 ATGAATTAAGCCGCGACAGCACTTAATTGAGGCGACTTTCCAGAGTTCCAGAAAGCAACG 480
Db 8685 ATGAATTAAGCCGCGACAGCACTTAATTGAGGCGACTTTCCAGAGTTCCAGAAAGCAACG 8744
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Qy 721 AGAGAAAAATATGATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCAGATGAGC 780
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Qy 1141 CGCCAAACAAAGTCCCTACTATATCAACCAAGAGACTCAACCAACTTGTGGGAGCAATC 1200
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Db 9705 ACAATTTGTCACAGCTCCCTCTGCGGTGATATGTGTCTGAAGCTGCTGTAATGTT 9764
Qy 1501 A 1501
Db 9765 A 9765

RESULT 12
US-09-880-107-2284
; Sequence 2284, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880.107
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2284
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M18533
US-09-880-107-2284

Query Match 99.9%; Score 1499.4; DB 9; Length 13957;
Beet Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGACTCATAGATTACTGCAACAGTTCCCTGACCTGAGAAAGTTTCTTGCTGGCTTA 60
Db 8265 AAATCTATAGATTACTGCAACAGTTCCCTGACCTGAGAAAGTTTCTTGCTGGCTTA 8324
Qy 61 CAGAACTGAAACCACTGCCAATGCTCTTAAGATGCTAACCCGTAAGAAAGCTCTAG 120
Db 8325 CAGAACTGAAACCACTGCCAATGCTCTTAAGATGCTAACCCGTAAGAAAGCTCTAG 8384
Qy 121 AAGACTCAAGAGGATTAAGAGCTGATGAAACAAATGGCAAGACCTCAAGGTGAATTTG 180
Db 8385 AAGACTCAAGAGGATTAAGAGCTGATGAAACAAATGGCAAGACCTCAAGGTGAATTTG 8444
Qy 181 AAGCTCACAGAGATGTTTATACAAACCTGATGAAAAACGCCAAAAAATCTTGAGATCCC 240
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Qy 241 TGGAAAGGTTCCGATGATGACAGTCTGTATACAAAGAGCTTTGGATTAACATGAATCTTCAAGT 300
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Db 9705 ACAATTTGTCAGAGCTCCCTCTCTGCGTGATGTGTCTGAACCTGCTGTGAATGTT 9764
QY 1501 A 1501
Db 9765 A 9765
RESULT 13
US-10-149-736-1
; Sequence 1, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; TITLE OF INVENTION: Min1-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-149-736-1
Query Match 99.9%; Score 1499.4; DB 17; Length 13957;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 AGACTATATGATTAATTCGCAACAGTTCCCTGAGACCTTGAAAAAGTTTCTGCTGCTTA 60
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Qy 1501 A 1501
Db 9765 A 9765

RESULT 14

US-10-172-118-434
; Sequence 434, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 434
; LENGTH: 14069
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM_000109
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-434
Query Match 99.9%; Score 1499.4; DB 17; Length 14069;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 AGACTCATAGATTCTGCAACAGTTCCTGCAAGTCCCTGCAAGTCCGAAAGTTCTTCCGCTTGA 60
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Db 8857 ATGTAATTAAGGCTTCAAGAGGAAATGAAACTTAAGAACTGTAATCATGAGTACTC 8916
Qy 541 TTGAGACTGTAACGAATTTCTGACAGAGCAGCTTTGGAAGGACTGAGAAACTTACC 600
Db 8917 TTGAGACTGTAACGAATTTCTGACAGAGCAGCTTTGGAAGGACTGAGAAACTTACC 8976
Qy 601 AGAGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCACTCGGCTTCAAGAA 660

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Db 9037 AGCAGGCTGAGAGAGCTCAATATATGAGTGGGAAAAATTGAACCTGCACTCCGTGATGCGC 9096
Qy 721 AGAGAAAAATATGATAGAGACCTTTGAAAGACTCAGAGAACTTCAAGAGGCCAGATGAGC 780
Db 9097 AGAGAAAAATATGATAGAGACCTTTGAAAGACTCAGAGAACTTCAAGAGGCCAGATGAGC 9156
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Db 9217 TCTCATTTGACTCTCTCAAGATCACTCGAAGAACTGAAGGCACTTGAAGAGAAATTG 9276
Qy 901 CGCCTCTGAAAGAGAACGTGAGCCAGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGG 960
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Qy 1441 ACAATTGTCAGAGTCCCTCTCTGCGTGAATATGTCCTGAACTGGCTGCTGAATGTTT 1500
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Qy 1501 A 1501
Db 9877 A 9877

RESULT 15
US-10-342-887-434
; Sequence 434, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao

; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342,887
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/238,918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380,710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172,118
; PRIOR FILING DATE: 2002-06-14
; SEQ ID NO: 2699
; SEQ ID NO: 434
; LENGTH: 14069
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-342-887-434

Query Match 99.9%; Score 1499.4; DB 17; Length 14069;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 8377 AACTCTATATTAATTAATGCAAGTCCCTGAGCTGAGAAAGTTCTTGCCGCGCTTA 8436
Qy 61 CAGAGCTGAAACAACTGCCAATGTCCTACAGATGTCACCCGTAAAGAAAGCTCTAG 120
Db 8437 CAGAGCTGAAACAACTGCCAATGTCCTACAGATGTCACCCGTAAAGAAAGCTCTAG 8496
Qy 121 AAGATCCAAAGGAGTAAAGAGCTGATGAAACAAATGGCAAGCTTCAAGTGAATTG 180
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Qy 181 AAGCTCACAAGATGTTTATCACAACCTGATGAAACAGCCAAATAATCTTGAATGCC 240
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Qy 241 TGAAGAGTCCGATGATGACGTCCTGTTCAAAAGACGTTTGATTAATGAACCTTCAAGT 300
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Qy 301 GAGTGAACCTTGGAGAAAGTCTCTCAACATTAAGTCCATTGGAAGCCAGTTCGACC 360
Db 8677 GAGTGAACCTTGGAGAAAGTCTCTCAACATTAAGTCCATTGGAAGCCAGTTCGACC 8736
Qy 361 AGTGAAGGCTGCACTTCTCTGCAAGAACTTCTGCTGAGTGAAGTGAAGTGAAGATG 420
Db 8737 AGTGAAGGCTGCACTTCTCTGCAAGAACTTCTGCTGAGTGAAGTGAAGTGAAGATG 8796
Qy 421 ATGAATTAAGCCGCGCAGGCACTATTTGAGGCGACCTTCCAGAGTTCAGAGCAGACG 480
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Qy 481 ATGTAATTAAGGCGCTTCAAGAGGAAATTGAACCTGAACCTGTAATCAAGAGATC 540
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Qy 541 TTGAGACTGTACGAATATTTGACAGAGCAGCTTTGGAAGGACTGAGAAACTTAC 600
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Qy 601 AGAGGCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGCTACTCGGCTTTACGAA 660
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QY 721 AGAGAAAATGATGAGACCTTGAAGACTCCAGAACTTCAAGAGCCACGATGAGC 780
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QY 781 TGGACCTCAAGCTGCGCAAGCTGAGGATCAAGGGATCTGGCAGCCCGGGCGATC 840
DB 9157 TGGACCTCAAGCTGCGCAAGCTGAGGATCAAGGGATCTGGCAGCCCGGGCGATC 9216
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DB 9877 A 9877

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Job time : 905.381 secs

20636216332

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OM nucleic - nucleic search, using sw model

Run on: March 2, 2005, 06:35:12 ; Search time 897.381 Seconds
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9911.195 Million cell updates/sec

Title: US-09-845-416-6_COPY_2000_3500

Perfect score: 1501

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Scoring table: IDENTITY_NUC

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0
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Post-processing: Minimum March 0%
Listing first 45 summaries

Database :

Published Applications NA:*

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
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- 19: /cgn2_6/ptodata/2/pubpna/US10F_NEW_PUB.seq.*
- 20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1501	100.0	2169	US-09-845-416-4	Sequence 4, Appl1
2	1501	100.0	3531	US-09-845-416-10	Sequence 10, Appl1
3	1501	100.0	3858	US-09-845-416-9	Sequence 9, Appl1
4	1501	100.0	3999	US-09-845-416-6	Sequence 6, Appl1
5	1501	100.0	4182	US-09-845-416-2	Sequence 2, Appl1
6	1501	100.0	4498	US-09-845-416-30	Sequence 30, Appl1
7	1501	100.0	4825	US-09-845-416-29	Sequence 29, Appl1
8	1501	100.0	4848	US-09-845-416-35	Sequence 35, Appl1
9	1501	100.0	4966	US-09-845-416-38	Sequence 38, Appl1
10	1501	100.0	4990	US-09-845-416-34	Sequence 34, Appl1
11	1501	100.0	5060	US-09-845-416-36	Sequence 36, Appl1

12	1501	100.0	5149	US-09-845-416-27	Sequence 27, Appl1
13	1501	100.0	5339	US-10-149-736-40	Sequence 40, Appl1
14	1501	100.0	5462	US-10-149-736-41	Sequence 41, Appl1
15	1501	100.0	8689	US-10-149-736-42	Sequence 42, Appl1
16	1501	100.0	11058	US-09-845-416-1	Sequence 1, Appl1
17	1501	100.0	11443	US-10-149-736-44	Sequence 44, Appl1
18	1501	100.0	12057	US-10-149-736-47	Sequence 47, Appl1
19	1501	100.0	13957	US-09-782-378A-22	Sequence 22, Appl1
20	1501	100.0	13957	US-09-880-107-2284	Sequence 2284, Appl1
21	1501	100.0	13957	US-10-149-736-1	Sequence 1, Appl1
22	1501	100.0	14069	US-10-172-118-434	Sequence 434, Appl1
23	1501	100.0	14086	US-10-342-887-434	Sequence 434, Appl1
24	1501	100.0	14082	US-10-341-434-108	Sequence 108, Appl1
25	1501	100.0	14082	US-10-172-118-981	Sequence 981, Appl1
26	1501	100.0	14082	US-10-342-887-981	Sequence 981, Appl1
27	1339.8	89.3	3510	US-09-845-416-12	Sequence 12, Appl1
28	1339.8	89.3	4476	US-09-845-416-31	Sequence 31, Appl1
29	1335	88.9	1821	US-09-845-416-13	Sequence 13, Appl1
30	1301	86.7	13815	US-10-149-736-2	Sequence 2, Appl1
31	949.6	63.3	3446	US-09-845-416-14	Sequence 14, Appl1
32	949.6	63.3	4414	US-09-845-416-32	Sequence 32, Appl1
33	948.6	63.2	5417	US-10-149-736-39	Sequence 39, Appl1
34	948	63.2	1434	US-09-845-416-15	Sequence 15, Appl1
35	621.2	41.4	10705	US-10-152-319A-1598	Sequence 1598, Appl1
36	621.2	41.4	11096	US-10-149-736-4	Sequence 4, Appl1
37	603.6	40.2	10302	US-09-782-378A-23	Sequence 23, Appl1
38	603.6	40.2	10302	US-10-149-736-3	Sequence 3, Appl1
39	594.8	39.6	15531	US-10-101-510-667	Sequence 667, Appl1
40	546.8	36.4	5106	US-10-220-120-157	Sequence 157, Appl1
41	404	26.9	887	US-10-149-736-35	Sequence 35, Appl1
42	387	25.8	387	US-10-149-736-32	Sequence 32, Appl1
43	324	21.6	324	US-10-149-736-33	Sequence 33, Appl1
44	216	14.4	216	US-10-149-736-34	Sequence 34, Appl1
45	170	11.3	348	US-10-149-736-31	Sequence 31, Appl1

ALIGNMENTS

RESULT 1
US-09-845-416-4
; Sequence 4, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845, 416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200, 777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-4

Query Match 100.0%; Score 1501; DB 10; Length 2169;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	CTCACACAGATGTTTATCACAACCTGATGTAAGAAACAGCCAAATACTCTGAGATCCCTGG	60
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QY	61	AAGCTTCGAGTGGAGTCTCTGTTTACAAGAGCTTGATTAACCTTCAAGTGA	120
DB	243	AAGCTTCGAGTGGAGTCTCTGTTTACAAGAGCTTGATTAACCTTCAAGTGA	302
QY	121	GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCATTGGAAAGCCAGTTCTGACAGT	180

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Qy 181 GGAAGCGCTGACCTTTCTCTGACGAAATCTTCTGGTGTGCTACAGCTGAAAGATGATG 240
Db 363 GGAAGCGCTGACCTTTCTCTGACGAAATCTTCTGGTGTGCTACAGCTGAAAGATGATG 422
Qy 241 AATTAAAGCCGGACGACCTATTGAGAGGACCTTTTCAGACGTTTCAGAAAGCAGAG 300
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Qy 301 TACATGAGGCTTTCAGAGGGAATTGAAAATTAAGAACCTGTAAATCATGATCTTTG 360
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Qy 361 AGACTGACGAATATTTCTGACAGAGAGCTTTTGGAAAGACCTAAGAAATCTTACAG 420
Db 543 AGACTGACGAATATTTCTGACAGAGAGCTTTTGGAAAGACCTAAGAAATCTTACAG 602
Qy 421 AGCCCAAGAGAGCTGCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGC 480
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Qy 541 GAAAAATAGATGAGACCTTTGAAAAGCTCCAGAACTTCAAGAGGCAAGGATGAGCTG 600
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Qy 1501 A 1501
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RESULT 2
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10
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Best Local Similarity 100.0%; Pred. No. 0;
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Db 2912 GTAAGAGCAATTTGGAAGACAGATACATACCTTTTAAAGAGATGCAAGTCAAG 2971
Qy 1441 GATTTTGTGACGAGCGAGCTGGGCTCTCTTCATGATTTCTCAAAATTCAGAAC 1500

Db 2972 GATTTTGTGACGAGCGAGCGCTGGGCTCTCTTCATGATTTCTCAAAATTCAGAAC 3031
Qy 1501 A.1501
Db 3032 A.3032

RESULT 3
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DB1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 100.0%; Score 1501; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCACACGATGTTTATTCACAACTGTGATGAAACAGCCAAATACTGAGATCCCTGG 60
Db 1859 CTCACACGATGTTTATTCACAACTGTGATGAAACAGCCAAATACTGAGATCCCTGG 1918
Qy 61 AAGGTTCCGATGATGACAGTCTGTATTAACAAGACGTTTGGATATGATGAATTCAGTGA 120
Db 1919 AAGGTTCCGATGATGACAGTCTGTATTAACAAGACGTTTGGATATGATGAATTCAGTGA 1978
Qy 121 GTGAACCTTGGAAAAAGTCTGTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACAGT 180
Db 1979 GTGAACCTTGGAAAAAGTCTGTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACAGT 2038
Qy 181 GGAAGCGTGTGACACTTCTCTGCAAGAACTTCTGTGTGTGCTCACTACGTTGAAAGATGATG 240
Db 2039 GGAAGCGTGTGACACTTCTCTGCAAGAACTTCTGTGTGTGCTCACTACGTTGAAAGATGATG 2098
Qy 241 AATTAAAGCCGAGAGCACTATTGGAAGCGACTTCCAGAGTTCAGAAAGCAAGATG 300
Db 2099 AATTAAAGCCGAGAGCACTATTGGAAGCGACTTCCAGAGTTCAGAAAGCAAGATG 2158
Qy 301 TACATAGGCGCTTCAAGAGGGAATTGAAACTTAAGAACTGTATATCATGAGTACTTTG 360
Db 2159 TACATAGGCGCTTCAAGAGGGAATTGAAACTTAAGAACTGTATATCATGAGTACTTTG 2218
Qy 361 AGACTGTACGAATATTTCTGACAGAGACGCTTTGGAAGGACTGAGAAACTTACCAAG 420
Db 2219 AGACTGTACGAATATTTCTGACAGAGACGCTTTGGAAGGACTGAGAAACTTACCAAG 2278
Qy 421 AGCCCAAGAGACTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTAGAAAGC 480
Db 2279 AGCCCAAGAGACTGCTCTCTGAGAGAGAGCCCAAGATGTCACTCGGCTTCTAGAAAGC 2338
Qy 481 AGGCTGAGAGAGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCGGCTGATGGCAGA 540
Db 2339 AGGCTGAGAGAGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCGGCTGATGGCAGA 2398
Qy 541 GAAAAATGATGAGACCTTTGAAAGACTCCAGAGAACTTCAAGAGCCACGATGAGCTGG 600
Db 2399 GAAAAATGATGAGACCTTTGAAAGACTCCAGAGAACTTCAAGAGCCACGATGAGCTGG 2458
Qy 601 ACTCAAGCTGCGCAAGCTGAGTCAAGAGGATCCTGGCAAGCCGTTGGGCGATCTCC 660

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Db      2459  ACGTGAAGTGGCCAGACGTGATCAAGGATCTCGACCCCTGGCCATCTCC 2518
Qy      661  TCATTGACCTCTCCAAATACCCCGAAGAAATGCAAGGCACTTCGAGAGAAATTCGCG
Db      2519  TCATTGACCTCTCCAAATACCCCGAAGAAATGCAAGGCACTTCGAGAGAAATTCGCG 2578
Qy      721  CTCTGAAAGAGAACGTGAGCCACGTCAATGACTTGTGCTGGCAGCTTACCACTTTGGGCA
Db      2579  CTCTGAAAGAGAACGTGAGCCACGTCAATGACTTGTGCTGGCAGCTTACCACTTTGGGCA 2638
Qy      781  TTCAGCTCTCAACCGTAAATCTCAAGCACTCTGAAAGACTTGAACCCAGATGGAAGCTTC
Db      2639  TTCAGCTCTCAACCGTAAATCTCAAGCACTCTGAAAGACTTGAACCCAGATGGAAGCTTC 2698
Qy      841  TGCAGGTGGCCGTGAGAGACCGAGTCAAGGAGCTGCAATGAAAGCCACAGGAGACTTTGGTC
Db      2699  TGCAGGTGGCCGTGAGAGACCGAGTCAAGGAGCTGCAATGAAAGCCACAGGAGACTTTGGTC 2758
Qy      901  CAGCATCTCAGCACTTTCTTTCCAGTCTGTCTCAAGGGTCCCTGGAGAGAGCCATCTCGC
Db      2759  CAGCATCTCAGCACTTTCTTTCCAGTCTGTCTCAAGGGTCCCTGGAGAGAGCCATCTCGC 2818
Qy      961  CAACAAGTGGCCCTATATATCAACCAAGAGACTGAAACAACTTCTGGAGACATCTCCA
Db      2819  CAACAAGTGGCCCTATATATCAACCAAGAGACTGAAACAACTTCTGGAGACATCTCCA 2878
Qy      1021  AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATATGCAATTCAGCTTATA
Db      2879  AAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATATGCAATTCAGCTTATA 2938
Qy      1081  GGAAGTGCATGAAACCTCCGAAAGCTGCAAGAGCCCTTGTCTTGAATCTCTTGAAGCTGT
Db      2939  GGAAGTGCATGAAACCTCCGAAAGCTGCAAGAGCCCTTGTCTTGAATCTCTTGAAGCTGT 2998
Qy      1141  CAGCTCATGTGATGCTTGAACCAAGCACTCAAGCAAAATGACCAAGCCCATGAGATA
Db      2999  CAGCTCATGTGATGCTTGAACCAAGCACTCAAGCAAAATGACCAAGCCCATGAGATA 3058
Qy      1201  TCCTGAGATTAATTAATTTTGAACCAATTAATTAATGACCGCTGAGAGAGAGACAAACA
Db      3059  TCCTGAGATTAATTAATTTTGAACCAATTAATTAATGACCGCTGAGAGAGAGACAAACA 3118
Qy      1261  ATTGTGCAACGCTCTCTGCTGATATGCTGAACCTGCTGCTGATGATTTATG 1320
Db      3119  ATTGTGCAACGCTCTCTGCTGATATGCTGAACCTGCTGCTGATGATTTATG 3178
Qy      1321  AATCGGAGCAACAGGAGAGATCGGTCTCTTTTAAACTGCGATCAATTCCTCTGT
Db      3179  AATCGGAGCAACAGGAGAGATCGGTCTCTTTTAAACTGCGATCAATTCCTCTGT 3238
Qy      1381  GTAAAGCAATTTGGAAGACAGTACAGATCCTTTCAAGCAAGTGGCAAGTTCAACAG
Db      3239  GTAAAGCAATTTGGAAGACAGTACAGATCCTTTCAAGCAAGTGGCAAGTTCAACAG 3298
Qy      1441  GATTTTGGACAGCGAGGCTGGCCCTCTTCTGCAATGATTCATCAATTCGAAGAC
Db      3299  GATTTTGGACAGCGAGGCTGGCCCTCTTCTGCAATGATTCATCAATTCGAAGAC 3358
Qy      1501  A 1501
Db      3359  A 3359
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RESULT 4
US-09-845-416-6

Sequence 6, Application US/09845416

Publication No. US2003017312A1

GENERAL INFORMATION:

APPLICANT: XIAO, XIAO

TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

FILE REFERENCE: DE1142

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Qy      1  CTCACACAGATGTTTATACAACTGGATGTAAGAAACCCCAAAATCTGAGATCCCTGG 60
Db      2000  CTCACACAGATGTTTATACAACTGGATGTAAGAAACCCCAAAATCTGAGATCCCTGG 2059
Qy      61  AAGTTCGATGATGACGTCTGTACAAAGAGCTTGTGAATACATGAACCTTCAAGTGA
Db      2060  AAGTTCGATGATGACGTCTGTACAAAGAGCTTGTGAATACATGAACCTTCAAGTGA 2119
Qy      121  GTGAACCTTGGAAAAAGTCTCTCAATTAAGTCCATTTGGAGCCAGTCTGACAGT
Db      2120  GTGAACCTTGGAAAAAGTCTCTCAATTAAGTCCATTTGGAGCCAGTCTGACAGT 2179
Qy      181  GGAAGCTCTGCACTTTCTCTGCAAGAACTTGTGTGTGCTGCAAGCTGGAAGATGATG
Db      2180  GGAAGCTCTGCACTTTCTCTGCAAGAACTTGTGTGTGCTGCAAGCTGGAAGATGATG 2239
Qy      241  AATTAAGCCGGAGGAGCACTTATTTGAGGCGACTTTTCAGCAGTTTGAAGCAAGATG
Db      2240  AATTAAGCCGGAGGAGCACTTATTTGAGGCGACTTTTCAGCAGTTTGAAGCAAGATG 2299
Qy      301  TACATAGGGCTTCAAGAGGGAATTGAACCTAAGAACTGTATTCATGATACCTTTG
Db      2300  TACATAGGGCTTCAAGAGGGAATTGAACCTAAGAACTGTATTCATGATACCTTTG 2359
Qy      361  AGACTGTACGAATATTTCTGACAGAGACCTTTGGAAGACTGAGAACTTACACAG
Db      2360  AGACTGTACGAATATTTCTGACAGAGACCTTTGGAAGACTGAGAACTTACACAG 2419
Qy      421  AGCCGAGAGGCTGCTCTGAGAGAGAGCCAGAACTGCTGCTTCTTGAAGAAC
Db      2420  AGCCGAGAGGCTGCTCTGAGAGAGAGCCAGAACTGCTGCTTCTTGAAGAAC 2479
Qy      481  AGCTGAGAGGTCATATCTGATGGGAAAAATTGAACCTGCACTCGCTGAGCGGAGA
Db      2480  AGCTGAGAGGTCATATCTGATGGGAAAAATTGAACCTGCACTCGCTGAGCGGAGA 2539
Qy      541  GAAAAATGATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCAGATGAGCTGG
Db      2540  GAAAAATGATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCAGATGAGCTGG 2599
Qy      601  AACTCAAGCTGGCCAGAGCTGAGTGAATCAAGGAGCTGCGAGCCCGTGGGGAGATCTCC
Db      2600  AACTCAAGCTGGCCAGAGCTGAGTGAATCAAGGAGCTGCGAGCCCGTGGGGAGATCTCC 2659
Qy      661  TCATTGATCTCTCCAAAGATCACTGAGAAAGTCAAGGCACTTTCGAGAGAAATTGGCG
Db      2660  TCATTGATCTCTCCAAAGATCACTGAGAAAGTCAAGGCACTTTCGAGAGAAATTGGCG 2719
Qy      721  CTCTGAAAGAGAACGTGAGCCAGTCAATGACCTTGTGCTGGCCAGCTTACCACTTTGGGCA
Db      2720  CTCTGAAAGAGAACGTGAGCCAGTCAATGACCTTGTGCTGGCCAGCTTACCACTTTGGGCA 2779
Qy      781  TTCAGCTCTCAACCGTAAATCTCAAGCACTCTGAAAGACTTGAACCCAGATGGAAGCTTC
Db      2780  TTCAGCTCTCAACCGTAAATCTCAAGCACTCTGAAAGACTTGAACCCAGATGGAAGCTTC 2839
Qy      841  TGCAGGTGGCCGTGAGAGACCGAGTCAAGGAGCTGATGAAGCCCAAGAGACTTTGGTC 900
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Db 2840 TGCAGTGGCCGTGAGAGACCGAGTCAAGGACGTGACGAAAGCCACAGGACCTTGGTGC 2899
Qy 901 CAGCATCTCAGACATTTTCTTCCACGCTGTCCAGGGTCCCTGGAGAGACCATCTGC 960
Db 2900 CAGCATCTCAGACATTTTCTTCCAGCTGTCCAGGGTCCCTGGAGAGACCATCTGC 2959
Qy 961 CAACCAAGTGCCTCTACTATATCAACAGAGACTCAACAACTTGTGGAGACCATCCCA 1020
Db 2960 CAACCAAGTGCCTCTACTATATCAACAGAGACTCAACAACTTGTGGAGACCATCCCA 3019
Qy 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCAGCTTATA 1080
Db 3020 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCAGCTTATA 3079
Qy 1081 GGACTGCCATAAACTCCGAGAGCTGCGAAGAGCCCTTGTGATCTCTTGAAGCTGT 1140
Db 3080 GGACTGCCATAAACTCCGAGAGCTGCGAAGAGCCCTTGTGATCTCTTGAAGCTGT 3139
Qy 1141 CAGCTGCATGTGATGCTTGGACCGACCAACCTCAAGCAAAATGACAGGCCATGATATA 1200
Db 3140 CAGCTGCATGTGATGCTTGGACCGACCAACCTCAAGCAAAATGACAGGCCATGATATA 3199
Qy 1201 TCCTGCAGATTTATTAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGCAACA 1260
Db 3200 TCCTGCAGATTTATTAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGCAACA 3259
Qy 1261 ATTTGGTCAACGCTCCCTCTCTGCGTGGATATGTGTCTGAATCTGCTGATGTTATG 1320
Db 3260 ATTTGGTCAACGCTCCCTCTCTGCGTGGATATGTGTCTGAATCTGCTGATGTTATG 3319
Qy 1321 ATACGGGACGAACAGGAGATCCGTCTGCTTTTAAACTGGCATCTTCCCTGT 1380
Db 3320 ATACGGGACGAACAGGAGATCCGTCTGCTTTTAAACTGGCATCTTCCCTGT 3379
Qy 1381 GTAAAGCATTGTAAGACAGATACAGATACCTTTCAAGCAATGGCAAGTTCAACAG 1440
Db 3380 GTAAAGCATTGTAAGACAGATACAGATACCTTTCAAGCAATGGCAAGTTCAACAG 3439
Qy 1441 GATTTTGTGACGAGCGGCGCTGCGCTCTCTTGTGATGATTTCTCAAAATTCGAAGC 1500
Db 3440 GATTTTGTGACGAGCGGCGCTGCGCTCTCTTGTGATGATTTCTCAAAATTCGAAGC 3499
Qy 1501 A 1501
Db 3500 A 3500

RESULT 5
US-09-845-416-2
Sequence 2, Application US/09845416
Publication No. US20030171312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
TITLE OF INVENTION: THEROP
FILE REFERENCE: DE1142
CURRENT APPLICATION NUMBER: US/09/845.416
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 4182
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCAACAGATGTTTATCAACAAGCTGATGAAAAAGCCAAAAATCTTGATCTCTGC 60
Db 2183 CTCAACAGATGTTTATCAACAAGCTGATGAAAAAGCCAAAAATCTTGATCTCTGC 2242
Qy 61 AAGTTCGATGATGAGTCTCTGTTTACAAAGACCTTTGGATTAAGATGAAGTTCAAGTGA 120
Db 2243 AAGTTCGATGATGAGTCTCTGTTTACAAAGACCTTTGGATTAAGATGAAGTTCAAGTGA 2302
Qy 121 GTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCATTTGGAAGCCAGTTCTGACAGT 180
Db 2303 GTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCATTTGGAAGCCAGTTCTGACAGT 2362
Qy 181 GGAAGCGTCTGACCTTCTCTGAGAGAACTTGTGTGCTACAGCTGAAGAAATGATG 240
Db 2363 GGAAGCGTCTGACCTTCTCTGAGAGAACTTGTGTGCTACAGCTGAAGAAATGATG 2422
Qy 241 AATTAAAGCCGAGGACCTTAATGAGGCGACTTTCAGAGCTTCAAGAGCAAGACGATG 300
Db 2423 AATTAAAGCCGAGGACCTTAATGAGGCGACTTTCAGAGCTTCAAGAGCAAGACGATG 2482
Qy 301 TACATPAGGCGCTTCAAGAGGGAATTTGAAAACTAAGAACTGTATCATGAGTACTCTTG 360
Db 2483 TACATPAGGCGCTTCAAGAGGGAATTTGAAAACTAAGAACTGTATCATGAGTACTCTTG 2542
Qy 361 AGACTGTACGAATATTTCTGACAGAGCGCTTTGAAAGCACTAGAGAACTTACAGAG 420
Db 2543 AGACTGTACGAATATTTCTGACAGAGCGCTTTGAAAGCACTAGAGAACTTACAGAG 2602
Qy 421 AGCCGAGAGAGCTGCTCTGAGAGAGAGGCCGAATGTCACTGCGCTTCTACGAAGC 480
Db 2603 AGCCGAGAGAGCTGCTCTGAGAGAGAGGCCGAATGTCACTGCGCTTCTACGAAGC 2662
Qy 481 AGGCTGAGGAGGTCAATCTGAGTGGGAAAAATTTGAACCTGCACTCCGCTGATGGCAGA 540
Db 2663 AGGCTGAGGAGGTCAATCTGAGTGGGAAAAATTTGAACCTGCACTCCGCTGATGGCAGA 2722
Qy 541 GAAAAATGATGAGACCTTTGAAAACTCCAGAACTTCAAGAGGCCAGATGAGCTGG 600
Db 2723 GAAAAATGATGAGACCTTTGAAAACTCCAGAACTTCAAGAGGCCAGATGAGCTGG 2782
Qy 601 ACCTCAAGCTGCGCAAGCTGATGATCAAGGATCTGTGCAAGCCGCTGGCCATCTCC 660
Db 2783 ACCTCAAGCTGCGCAAGCTGATGATCAAGGATCTGTGCAAGCCGCTGGCCATCTCC 2842
Qy 661 TCATTGACTCTCTCAAGATCACTCCGAGAAATCAAGGCACTTGCAGAGAAAAATTGGC 720
Db 2843 TCATTGACTCTCTCAAGATCACTCCGAGAAATCAAGGCACTTGCAGAGAAAAATTGGC 2902
Qy 721 CTCTGAAAGAAAGTGAAGCCAGCTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCA 780
Db 2903 CTCTGAAAGAAAGTGAAGCCAGCTCAATGACCTTGTGCGCAGCTTACCACTTTGGGCA 2962
Qy 781 TTCAGCTCTACCGTATTAAGCTCAAGCACTGTGAAGACCTGAACCAAGATGAACTTC 840
Db 2963 TTCAGCTCTACCGTATTAAGCTCAAGCACTGTGAAGACCTGAACCAAGATGAACTTC 3022
Qy 841 TGCAGGTGCGCGTGAAGACCGAGTCAAGGCGAGCTGCAATGAAGCCACAGGAACTTTGGTC 900
Db 3023 TGCAGGTGCGCGTGAAGACCGAGTCAAGGCGAGCTGCAATGAAGCCACAGGAACTTTGGTC 3082
Qy 901 CAGCATCTCAGACATTTTCTTCCAGCTGTCTGCAAGGCTCCCTGGAGAGAGACCATCTGC 960
Db 3083 CAGCATCTCAGACATTTTCTTCCAGCTGTCTGCAAGGCTCCCTGGAGAGAGACCATCTGC 3142
Qy 961 CAACCAAGTGCCTCTACTATATCAACAGAGACTCAACAACTTGTGGAGACCATCCCA 1020
Db 3143 CAACCAAGTGCCTCTACTATATCAACAGAGACTCAACAACTTGTGGAGACCATCCCA 3202
Qy 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCAGCTTATA 1080
Db 3203 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATATGTCAGATTCAGCTTATA 3262
Qy 1081 GGACTGCCATAAACTCCGAGAGCTGCGAAGAGCCCTTGTGATCTCTTGAAGCTGT 1140

Db 3263 GGACCTGCCATGAAACTCCGAAAGCTGCAGAAAGCCCTTGGCTGGATCTCTTGAAGCTGT 33222

QY 1141 CAGCTGCATGTGATGCTCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGAGTA 12007

Db 3323 CAGCTGCATGTATGCTCTTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCATGAGTA 33823

QY 1201 TCTCGCAATTAATTAATGTTTGAACCACTAATTTATGACCGCTGAGCAAGACCAACA 12607

Db 3383 TCTCGCAATTAATTAATGTTTGAACCACTAATTTATGACCGCTGAGCAAGACCAACA 34422

QY 1261 ATTGGCTAACGTCCTCTCTGCGTGGATATGTGTCTGAACCTGCTGTGAATGTTATG 13207

Db 3443 ATTGGCTAACGTCCTCTCTGCGTGGATATGTGTCTGAACCTGCTGTGAATGTTATG 35027

QY 1321 ATACGGAGCGAAACAGGAGAGATCCGTGCTGCTCTTTTAAACATGCGATCATTTCCCTGT 13807

Db 3503 ATACGGAGCGAAACAGGAGAGATCCGTGCTGCTCTTTTAAACATGCGATCATTTCCCTGT 35627

QY 1381 GTAAAGCACATTTGGAGAGACAAGTACAGATACCTTTTCAAGCAAGTGCAGATTCACAG 14407

Db 3563 GTAAAGCACATTTGGAGAGACAAGTACAGATACCTTTTCAAGCAAGTGCAGATTCACAG 36227

QY 1441 GATTTTGTGACCAAGCGAGCTGGGCTCTCTTGCATGATTTCTATCCAATTCAGAC 15007

Db 3623 GATTTTGTGACCAAGCGAGCTGGGCTCTCTTGCATGATTTCTATCCAATTCAGAC 36827

QY 1501 A 1501

Db 3683 A 3683

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RESULT 6
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-30

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Query Match	100.0%;	Score 1501;	DB 10;	Length 4498;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

QY	1	CTCACAGAGATGTTATACAAACCTGGATGAAACAGCAAAAATCTGTAGATCCCTCG	60
Db	2289	CTCACAGAGATGTTATACAAACCTGGATGAAACAGCAAAAATCTGTAGATCCCTCG	2348
QY	61	AAGGTTCCGATGATGACAGTCCCTGTTACAAAGCGTTTGGATACATGAACTTCAAGTGA	120
Db	2349	AAGGTTCCGATGATGACAGTCCCTGTTACAAAGCGTTTGGATACATGAACTTCAAGTGA	2408
QY	121	GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT	180
Db	2409	GTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGT	2468
QY	181	GGAAGCGTCTGCAACCTTCTCTGAGAGAACTTCTGAGTGGCTACACTGAAAATATGATG	240
Db	2469	GGAAGCGTCTGCAACCTTCTCTGAGAGAACTTCTGAGTGGCTACACTGAAAATATGATG	2528

QY	241	AATTAAACCCGACAGGCACTTAATTGAGAGCGACCTTTCAGACATTTACAGAGCAGAACGATG	300
Db	2529	AATTAAACCCGACAGGCACTTAATTGAGAGCGACCTTTCAGACATTTACAGAGCAGAACGATG	258
QY	301	TACATAAGGCGCTTCAGAGGGAATTGAAACTTAAAGAACTGTATATAGTACTTTG	360
Db	2589	TACATAAGGCGCTTCAGAGGGAATTGAAACTTAAAGAACTGTATATAGTACTTTG	264
QY	361	AGACTGTACGAATTAATTTCTGACAGAGCAGCTTTTGAAGACTTACAGAACTTACCAAG	420
Db	2649	AGACTGTACGAATTAATTTCTGACAGAGCAGCTTTTGAAGACTTACAGAACTTACCAAG	270
QY	421	AGCCAGAGAGCTGCGCTCTGAGAGAGAGCCAGATGTCACTCGGCTTCTACGAAAGC	480
Db	2709	AGCCAGAGAGAGCTGCGCTCTGAGAGAGAGCCAGATGTCACTCGGCTTCTACGAAAGC	276
QY	481	AGGCTGAGAGAGTTCAACTAGTGTGGAAAAATTTGAACCTGCACTCCGCTGACTGCGAG	540
Db	2769	AGGCTGAGAGAGTTCAACTAGTGTGGAAAAATTTGAACCTGCACTCCGCTGACTGCGAG	282
QY	541	GAATAATATAGTGAAGCCCTTGAAGATCTCAGAGAACTTACAGAGCCAGAGATGAGCTGG	600
Db	2829	GAATAATATAGTGAAGCCCTTGAAGATCTCAGAGAACTTACAGAGCCAGAGATGAGCTGG	288
QY	601	ACCTCAAGCTGCGCCAAAGCTGATGATCAAGAGATCTCGAGCCCTGTGGCGATCTTCC	660
Db	2889	ACCTCAAGCTGCGCCAAAGCTGATGATCAAGAGATCTCGAGCCCTGTGGCGATCTTCC	294
QY	661	TCAATTGACCTCTCCAGATGACACTCTGAGAAATGTAAGGCACTTTGAGAGAAATTTGGC	720
Db	2949	TCAATTGACCTCTCCAGATGACACTCTGAGAAATGTAAGGCACTTTGAGAGAAATTTGGC	3008
QY	721	CTCTGAAAGAGAACGTGAGCCAGTCAATGACCTTGCTCGCAGCTTACCACTTTGGGCA	780
Db	3009	CTCTGAAAGAGAACGTGAGCCAGTCAATGACCTTGCTCGCAGCTTACCACTTTGGGCA	3068
QY	781	TTCAAGCTCTCACCGATATACTCAGACACTTGTGAAAGACTTGAAACCAAGATGAAAGCTTC	840
Db	3069	TTCAAGCTCTCACCGATATACTCAGACACTTGTGAAAGACTTGAAACCAAGATGAAAGCTTC	3128
QY	841	TGCAGGTGGCGGTGAGAGCCGAGTCAAGGACGTGCAAGAACCCAGAGGAGCTTTGGTGC	900
Db	3129	TGCAGGTGGCGGTGAGAGCCGAGTCAAGGACGTGCAAGAACCCAGAGGAGCTTTGGTGC	3188
QY	901	CAGCATCTCAGACATTTCTTTTCACAGTGTGTCCAGAGGTCCCTGTGGAGAGACCATCTGC	960
Db	3189	CAGCATCTCAGACATTTCTTTTCACAGTGTGTCCAGAGGTCCCTGTGGAGAGACCATCTGC	3248
QY	961	CAAACAAAAGTCCCTACTATATCAACCAACGAGACTCAAACAAACTTGCTGGGAGCCATCCCA	1020
Db	3249	CAAACAAAAGTCCCTACTATATCAACCAACGAGACTCAAACAAACTTGCTGGGAGCCATCCCA	3308
QY	1021	AAATGACAGAGCTCTACAGATCTTTAGCTGACCTGAATATGTGAGATTCCTCAGCTTATA	1080
Db	3309	AAATGACAGAGCTCTACAGATCTTTAGCTGACCTGAATATGTGAGATTCCTCAGCTTATA	3368
QY	1081	GGACTGCAATAAACTCCAGAACTGAGAAAGGCCCTTGTGGATCTTTGAGCCTGT	1140
Db	3369	GGACTGCAATAAACTCCAGAACTGAGAAAGGCCCTTGTGGATCTTTGAGCCTGT	3428
QY	1141	CAGCTGACATGTATGCTTGTGAGCCAGACCAACTCAAGCAAAATGACCAAGCCATGATTA	1200
Db	3429	CAGCTGACATGTATGCTTGTGAGCCAGACCAACTCAAGCAAAATGACCAAGCCATGATTA	3488
QY	1201	TCCGCGAGATTAATTAATTTGTTTACCACTAATTAATGACCGCTGTGAGCAAGACACAACA	1260
Db	3489	TCCGCGAGATTAATTAATTTGTTTACCACTAATTAATGACCGCTGTGAGCAAGACACAACA	3548
QY	1261	ATTGTGTCAACGTCCCTCTGTGGGTGGATATGTGTGAACTGGCTGTCAATGTTTATG	1320
Db	3549	ATTGTGTCAACGTCCCTCTGTGGGTGGATATGTGTGAACTGGCTGTCAATGTTTATG	3608
QY	1321	ATACGGAGCAACAGGGAGGATCCGTCTCTGTTTAAACCTGGCATCATTTCCCTGT	1380

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Db 3609 ATACGGGCGAAGGAGGATCGTGTCTGTCTTTTAAAACTGGATCATTTCCCTGT 3668
Qy 1381 GTAAAGCATTTTGGAGAAGATACAGATACCTTTTACAGCAAGTGGCAATTCAACAG 1440
Db 3669 GTAAAGCATTTTGGAGAAGATACAGATACCTTTTACAGCAAGTGGCAATTCAACAG 3728
Qy 1441 GATTGTGACAGGAGGAGGCGCTGCTTGTGATGATTTCTATCCAAATTCGAAGAC 1500
Db 3729 GATTGTGACAGGAGGAGGCGCTGCTTGTGATGATTTCTATCCAAATTCGAAGAC 3788
Qy 1501 A 1501
Db 3789 A 3789

RESULT 7
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-29

Query Match 100.0%; Score 1501; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCACAGATGTTTATCAACAACCTGATGAAAAAGCCAAAAATCCTGAGATCCCTGG 60
Db 2616 CTCACAGATGTTTATCAACAACCTGATGAAAAAGCCAAAAATCCTGAGATCCCTGG 2675
Qy 61 AAGGTTCCGATGATGACAGTCTCTGTTACAAAGACGTTTGATPAACATGAATTTCAAGTGA 120
Db 2676 AAGGTTCCGATGATGACAGTCTCTGTTACAAAGACGTTTGATPAACATGAATTTCAAGTGA 2735
Qy 121 GTGAACCTTCCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 180
Db 2736 GTGAACCTTCCGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACAGT 2795
Qy 181 GGAAGCGTCTGACACTTCTCTGACAGAACTTGTGTGCTACAGCTGAAAGATGATG 240
Db 2796 GGAAGCGTCTGACACTTCTCTGACAGAACTTGTGTGCTACAGCTGAAAGATGATG 2855
Qy 241 AATTAAAGCCGACAGGACCTTAATGAGGCGAATTTCCAGCAGTTCAAGAGAAAGATG 300
Db 2856 AATTAAAGCCGACAGGACCTTAATGAGGCGAATTTCCAGCAGTTCAAGAGAAAGATG 2915
Qy 301 TACATTAAGGCGCTTCAAGAGGGAATTTGAATACTAAAGAACTGTATATCATGAGTCTCTG 360
Db 2916 TACATTAAGGCGCTTCAAGAGGGAATTTGAATACTAAAGAACTGTATATCATGAGTCTCTG 2975
Qy 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGACTAGAGAACTTACACAG 420
Db 2976 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGACTAGAGAACTTACACAG 3035
Qy 421 AGCCCAAGAGAGCTCTCTGAGAGAGAGAGCCAGATGTCACTTGAGCTTACGAAGAC 480
Db 3036 AGCCCAAGAGAGCTCTCTGAGAGAGAGAGCCAGATGTCACTTGAGCTTACGAAGAC 3095

Qy 481 AGCTGAGAGAGTCAATATGATGAGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGA 540
Db 3096 AGCTGAGAGAGTCAATATGATGAGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGA 3155
Qy 541 GAAAAATGATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGG 600
Db 3156 GAAAAATGATGAGACCTTTGAAAGACTCCAGAACTTCAAGAGGCCAGGATGAGCTGG 3215
Qy 601 ACCCTAAGCTGGCGCAAGCTGAGGTGATCAAGGGAATCCTGGCAGCCGCTGGGCGATCTCC 660
Db 3216 ACCCTAAGCTGGCGCAAGCTGAGGTGATCAAGGGAATCCTGGCAGCCGCTGGGCGATCTCC 3275
Qy 661 TCATTGACTCTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTTCAGAGAGAAATTCGCG 720
Db 3276 TCATTGACTCTCTCAAGATCACTCGAAGAAAGTCAAGGCACTTTCAGAGAGAAATTCGCG 3335
Qy 721 CTCTGAAAGAGACGTGAGGCCACTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCA 780
Db 3336 CTCTGAAAGAGACGTGAGGCCACTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCA 3395
Qy 781 TTCAAGCTCTACCGGTATTAACCTGAGCACTCTGGAAGACCTGGAACCAAGATGAAAGCTTC 840
Db 3396 TTCAAGCTCTACCGGTATTAACCTGAGCACTCTGGAAGACCTGGAACCAAGATGAAAGCTTC 3455
Qy 841 TGCAGTGGCCGCTGAGAGACCAAGTCAAGGACGTGATGAAGCCACAGGACCTTTGGTTC 900
Db 3456 TGCAGTGGCCGCTGAGAGACCAAGTCAAGGACGTGATGAAGCCACAGGACCTTTGGTTC 3515
Qy 901 CAGCATCTCAGACCTTTCTTTTCAACGCTGTGTCAGGGTCCCTGGGAGAGAGCCATCTGC 960
Db 3516 CAGCATCTCAGACCTTTCTTTTCAACGCTGTGTCAGGGTCCCTGGGAGAGAGCCATCTGC 3575
Qy 961 CAACCAAGGCGCTTACTATATCAACCAAGGACCTCAACCAACTTGTGGGAGCCATCCCA 1020
Db 3576 CAACCAAGGCGCTTACTATATCAACCAAGGACCTCAACCAACTTGTGGGAGCCATCCCA 3635
Qy 1021 AATGACAGAGCTCTACAGCTCTTAAGCTGACCTGAATATGATGATTCACCTTATA 1080
Db 3636 AATGACAGAGCTCTACAGCTCTTAAGCTGACCTGAATATGATGATTCACCTTATA 3695
Qy 3696 GGACTGCCATGAATCTCGAAGACCTGCAAGAGGCCCTTGTGATCTTGAAGCCCTGT 3755
Db 1081 GGACTGCCATGAATCTCGAAGACCTGCAAGAGGCCCTTGTGATCTTGAAGCCCTGT 1140
Qy 1141 CAGCTGATGATGAGCTTGTGACCAAGCAACCTCAAGCAAAATGACACGACCAATGTATA 1200
Db 3756 CAGCTGATGATGAGCTTGTGACCAAGCAACCTCAAGCAAAATGACACGACCAATGTATA 3815
Qy 1201 TCTGCAAGATTATTAATTTGTTGACCACTATTTATGACCGGCTGGAGCAAGACAAACA 1260
Db 3816 TCTGCAAGATTATTAATTTGTTGACCACTATTTATGACCGGCTGGAGCAAGACAAACA 3875
Qy 1261 AATTGTCMAAGTCCCTCTCTGCGGTGATATGTGTGAACTGGCTGCTGAATGTTATG 1320
Db 3876 AATTGTCMAAGTCCCTCTCTGCGGTGATATGTGTGAACTGGCTGCTGAATGTTATG 3935
Qy 1321 ATAGGGAAGCAACGGAAGATCCGTCTCTGTTTAAACCTGGAATCAATTTCCCTGT 1380
Db 3936 ATAGGGAAGCAACGGAAGATCCGTCTCTGTTTAAACCTGGAATCAATTTCCCTGT 3995
Qy 1381 GTAAAGCATTTTGGAGAAGATACAGATACCTTTTACAGCAAGTGGCAAGTTCAACAG 1440
Db 3996 GTAAAGCATTTTGGAGAAGATACAGATACCTTTTACAGCAAGTGGCAAGTTCAACAG 4055
Qy 1441 GATTGTGACAGGAGGCTGGGCTCTCTGATGATTTCTATCCAAATTCGAAGAC 1500
Db 4056 GATTGTGACAGGAGGCTGGGCTCTCTGATGATTTCTATCCAAATTCGAAGAC 4115
Qy 1501 A 1501
Db 4116 A 4116

RESULT 8
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 100.0%; Score 1501; DB 10; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGACACAGATGTTTATCAACAACCTGGATGAAAACAGCCAAAATCTGAGATCCCTGG 60
Db 2639 CTCACACAGATGTTTATCAACAACCTGGATGAAAACAGCCAAAATCTGAGATCCCTGG 2698
QY 61 AAGGTTCCGATGATGAGTCCGTTTACAAAGACGTTTGAATTAACATGAATCTCAAGTGA 120
Db 2699 AAGGTTCCGATGATGAGTCCGTTTACAAAGACGTTTGAATTAACATGAATCTCAAGTGA 2758
QY 121 GTGAACCTCGGAAAAAGTCTCAACATTAGTCCATTGGAGACCAGTTCTGACAGT 180
Db 2759 GTGAACCTCGGAAAAAGTCTCAACATTAGTCCATTGGAGACCAGTTCTGACAGT 2818
QY 181 GGAAGGCTGACACCTTCTCTGACAGAACTTCTGCTGTGCTAAGCTGAAAGATGATG 240
Db 2819 GGAAGGCTGACACCTTCTCTGACAGAACTTCTGCTGTGCTAAGCTGAAAGATGATG 2878
QY 241 AATTAAAGCCGAGCAGCATTATGAGGAGCACTTTCCAGCAATTGAGAAAGAGAGATG 300
Db 2879 AATTAAAGCCGAGCAGCATTATGAGGAGCACTTTCCAGCAATTGAGAAAGAGATG 2938
QY 301 TACATAGGCGCTTCAAGAGGGAATTTGAAACTTAAAGAACTTGAATCAATGATCTCTTG 360
Db 2939 TACATAGGCGCTTCAAGAGGGAATTTGAAACTTAAAGAACTTGAATCAATGATCTCTTG 2998
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCCCTTGGAAAGGACTGAGAAACTTTACAGG 420
Db 2999 AGACTGTACGAATATTTCTGACAGAGCAGCCCTTGGAAAGGACTGAGAAACTTTACAGG 3058
QY 421 AGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGGCTTTACGAAAGC 480
Db 3059 AGCCGAGAGAGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACTCGGCTTTACGAAAGC 3118
QY 481 AGGCTGAGAGAGTCAATACGAGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGA 540
Db 3119 AGGCTGAGAGAGTCAATACGAGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGA 3178
QY 541 GAAAAAATGATGAGACCTTGAAGAACTCCAGAACTTCAAGAGGAGCCAGGATGAGCTGG 600
Db 3179 GAAAAAATGATGAGACCTTGAAGAACTCCAGAACTTCAAGAGGAGCCAGGATGAGCTGG 3238
QY 601 ACCCTAAGCTGGCGCAAGCTGAGTGAATCAAGGAGTCTTGGCAGCCGCTGGGAGATCTCC 660
Db 3239 ACCCTAAGCTGGCGCAAGCTGAGTGAATCAAGGAGTCTTGGCAGCCGCTGGGAGATCTCC 3298
QY 661 TCATTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGAGCACTTCAGAGGAAATTTGGCG 720
Db 3299 TCATTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGAGCACTTCAGAGGAAATTTGGCG 3358

QY 721 CTCTGAAAGAGACGTGAGCCACGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCA 780
Db 3359 CTCTGAAAGAGACGTGAGCCACGTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCA 3418
QY 781 TTCAGCTCTCACCCGATATACCTCAGACACTTGTGGAAGACCTTAACACAGATGAAAGCTTC 840
Db 3419 TTCAGCTCTCACCCGATATACCTCAGACACTTGTGGAAGACCTTAACACAGATGAAAGCTTC 3478
QY 841 TGCAGTGGCGGTGAGAGACCGAGTCAAGGACAGCTGACATGAAGCCCAAGGAGCTTTGGTC 900
Db 3479 TGCAGTGGCGGTGAGAGACCGAGTCAAGGACAGCTGACATGAAGCCCAAGGAGCTTTGGTC 3538
QY 901 CAGCATCTCAGACATTTTCTTTCACAGTGTGTCCAGGCTCCCTGGAGAGAGCCATCTCGC 960
Db 3539 CAGCATCTCAGACATTTTCTTTCACAGTGTGTCCAGGCTCCCTGGAGAGAGCCATCTCGC 3598
QY 961 CAAACAAAGTCCCTCACTATATCAACACAGGACTCAAAACAACCTTGTGGAGCAATCCCA 1020
Db 3599 CAAACAAAGTCCCTCACTATATCAACACAGGACTCAAAACAACCTTGTGGAGCAATCCCA 3658
QY 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATTAATGATTCAGATCTTATATA 1080
Db 3659 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATTAATGATTCAGATCTTATATA 3718
QY 1081 GGACTGCGCATGAATCTCCGAAAGCTGAGAAAGCCCTTTGCTTGATCTTTGAGCTGT 1140
Db 3719 GGACTGCGCATGAATCTCCGAAAGCTGAGAAAGCCCTTTGCTTGATCTTTGAGCTGT 3778
QY 1141 CAGCTGATGATGATGCTTGTGAGACAGCAACAACCTCAAGCAAAATGACAGCCCATGATATA 1200
Db 3779 CAGCTGATGATGATGCTTGTGAGACAGCAACAACCTCAAGCAAAATGACAGCCCATGATATA 3838
QY 1201 TCCGAGCATTAATTAATTTGTTTGAACCACTATTATGACCGCTGAGAGCAAGACACACA 1260
Db 3839 TCCGAGCATTAATTAATTTGTTTGAACCACTATTATGACCGCTGAGAGCAAGACACACA 3898
QY 1261 ATTTGTCACAGTCCCTCTCTGCGTGAATATGCTGAACTGGCTGCGTAATGTTTATG 1320
Db 3899 ATTTGTCACAGTCCCTCTCTGCGTGAATATGCTGAACTGGCTGCGTAATGTTTATG 3958
QY 1321 ATACGGAGCAACAAGGAGATCCGTGCTGTCTTTTAAACCTGGATCAATTTCCCTGT 1380
Db 3959 ATACGGAGCAACAAGGAGATCCGTGCTGTCTTTTAAACCTGGATCAATTTCCCTGT 4018
QY 1381 GTAAGCAACTTTGGAAGAACAAGTACATACCTTTTCAAGAAAGTGGAGATTCAACAG 1440
Db 4019 GTAAGCAACTTTGGAAGAACAAGTACATACCTTTTCAAGAAAGTGGAGATTCAACAG 4078
QY 1441 GATTTTGTGACAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTTCAAGAC 1500
Db 4079 GATTTTGTGACAGCGCAGGCTGGGCTCTTCTGATGATTTCTATCCAAATTTCAAGAC 4138
QY 1501 A 1501
Db 4139 A 4139

RESULT 9
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28

LENGTH: 4966
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1501; DB 10; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCACACGATGTTTATCAACAACCTGATGAAAAAGCCAAAAATCTGAGATCCCTGG 60
DB 2757 CTCACACGATGTTTATCAACAACCTGATGAAAAAGCCAAAAATCTGAGATCCCTGG 2816
QY 61 AAGGTTCCGATGATGACGCTCTGTTACAAAGCGTTGGATTAACATGAACCTTCAAGTGA 120
DB 2817 AAGGTTCCGATGATGACGCTCTGTTACAAAGCGTTGGATTAACATGAACCTTCAAGTGA 2876
QY 121 GTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTTCGACAGT 180
DB 2877 GTGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTTCGACAGT 2936
QY 181 GGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGCTGCTCAAGCTGAAAGATGATG 240
DB 2937 GGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGCTGCTCAAGCTGAAAGATGATG 2996
QY 241 AATTAGCGCGGAGGCACTATTGGAGGCACTTCCAGAGTTGAGAAGCAAGACGATG 300
DB 2997 AATTAGCGCGGAGGCACTATTGGAGGCACTTCCAGAGTTGAGAAGCAAGACGATG 3056
QY 301 TACATAGGCGCTTCAGAGAGGAAATTGAAAACTGTAATCATGAGTACTCTTGG 360
DB 3057 TACATAGGCGCTTCAGAGAGGAAATTGAAAACTGTAATCATGAGTACTCTTGG 3116
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGATGAGAACTTACAG 420
DB 3117 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGAGATGAGAACTTACAG 4176
QY 421 AGCCGAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCACTGGGCTTCAAGAAAAGC 480
DB 3177 AGCCGAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCACTGGGCTTCAAGAAAAGC 3236
QY 481 AGGCTGAGGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGATGGCAGA 540
DB 3237 AGGCTGAGGAGGTCATATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGATGGCAGA 3296
QY 541 GAAAAATGATGAGACCTTTGAAAGATCTCCAGAGAACTTCAAGAGGCCACGATGAGCTGG 600
DB 3297 GAAAAATGATGAGACCTTTGAAAGATCTCCAGAGAACTTCAAGAGGCCACGATGAGCTGG 3356
QY 601 ACCCTCAAGCTGCGCAAGCTGAGTGAAGGATCTCTGGAGGCCCGTGGCGGATCTCC 660
DB 3357 ACCCTCAAGCTGCGCAAGCTGAGTGAAGGATCTCTGGAGGCCCGTGGCGGATCTCC 3416
QY 661 TCATTGAATCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTGGAGGAGAAATTTGGCG 720
DB 3417 TCATTGAATCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTGGAGGAGAAATTTGGCG 3476
QY 721 CTTGTAAGAGAAAGTGAAGCACTGAATGACCTTCTGCGCAGCTTACCACTTTGGGCA 780
DB 3477 CTTGTAAGAGAAAGTGAAGCACTGAATGACCTTCTGCGCAGCTTACCACTTTGGGCA 3536
QY 781 TTGAGCTCTCAACCTGTAACCTCGAGCACTTGGAGAGACTGTAACCAAGATGAGAGCTTC 840
DB 3537 TTGAGCTCTCAACCTGTAACCTCGAGCACTTGGAGAGACTGTAACCAAGATGAGAGCTTC 3596
QY 841 TGCAGGTGCGGTGAGAGACGAGTCAAGGAGCTGATGAAGCCCAAGGGAATTTGGTTC 900
DB 3597 TGCAGGTGCGGTGAGAGACGAGTCAAGGAGCTGATGAAGCCCAAGGGAATTTGGTTC 3656
QY 901 CAGCATCTCAGACATTTCTTTTCCAGTCTGTCCAGGGTCCCTGGAGAGAGCATCTGCG 960
DB 3657 CAGCATCTCAGACATTTCTTTTCCAGTCTGTCCAGGGTCCCTGGAGAGAGCATCTGCG 3716
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QY 961 CAAACAAAGTCCCTACTATATCAACACGAGACTCAAAACACTTGTGGAGCCATCCCA 1020
DB 3717 CAAACAAAGTCCCTACTATATCAACACGAGACTCAAAACACTTGTGGAGCCATCCCA 3776
QY 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGATATATGTCAGATTCTCAGTTTAA 1080
DB 3777 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGATATATGTCAGATTCTCAGTTTAA 3836
QY 1081 GGACTGCGCAATAAATCCGGAAGACTGCGAAGAGCCCTTGTGCTGGATCTCTTGGAGCCGT 1140
DB 3837 GGACTGCGCAATAAATCCGGAAGACTGCGAAGAGCCCTTGTGCTGGATCTCTTGGAGCCGT 3896
QY 1141 CAGCTGATGATGATGCTTGGACGACCAACTCAAGCAAAATGACCGAGCCATGATGA 1200
DB 3897 CAGCTGATGATGATGCTTGGACGACCAACTCAAGCAAAATGACCGAGCCATGATGA 3956
QY 1201 TCTGCAAGATTATTAATGTTTGAACCACTAATTATGACCGCTGAGAGCAAGCAACA 1260
DB 3957 TCTGCAAGATTATTAATGTTTGAACCACTAATTATGACCGCTGAGAGCAAGCAACA 4016
QY 1261 AATTGCTCAAGTCCCTCTGCGGCTGATGATGCTGATGATGATGATGATGATGATG 1320
DB 4017 AATTGCTCAAGTCCCTCTGCGGCTGATGATGCTGATGATGATGATGATGATGATG 4076
QY 1321 ATACGGAGCAAGAGGAGATCCGTCTGTCTTTTAAACTGGCATATTTCCCTGT 1380
DB 4077 ATACGGAGCAAGAGGAGATCCGTCTGTCTTTTAAACTGGCATATTTCCCTGT 4136
QY 1381 GTAAAGCAATTTGGAGAGCAAGTACAGATACCTTTTCAAGCAAGTGCAGAGTTCAAC 1440
DB 4137 GTAAAGCAATTTGGAGAGCAAGTACAGATACCTTTTCAAGCAAGTGCAGAGTTCAAC 4196
QY 1441 GATTTTGAACAGCGAGCGTGGGCTCTCTGCAAGATTTCAATCCAAATTTCCAGAC 1500
DB 4197 GATTTTGAACAGCGAGCGTGGGCTCTCTGCAAGATTTCAATCCAAATTTCCAGAC 4256
QY 1501 A 1501
DB 4257 A 4257
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RESULT 10
US-09-845-416-34
Sequence 34, Application US/09845416
Publication No. US2003017312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
FILE REFERENCE: DE1142
CURRENT APPLICATION NUMBER: US/09/845,416
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 34
LENGTH: 4990
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1501; DB 10; Length 4990;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCACACGATGTTTATCAACAACCTGATGAAAAAGCCAAAAATCTGAGATCCCTGG 60
DB 2781 CTCACACGATGTTTATCAACAACCTGATGAAAAAGCCAAAAATCTGAGATCCCTGG 2840
QY 61 AAGGTTCCGATGATGACGCTCTGTTACAAAGCGTTGGATTAACATGAACCTTCAAGTGA 120
DB 2841 AAGGTTCCGATGATGACGCTCTGTTACAAAGCGTTGGATTAACATGAACCTTCAAGTGA 2900
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QY 121 GTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTTGAAGCCAGTTCTGACCACT 180
DB 2901 GTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTTGAAGCCAGTTCTGACCACT 2960
QY 181 GGAAGCGTCTGACACCTTCTCTGAGGAACTTCTGATGTGCTCAAGCTGAAAGATGATG 240
DB 2961 GGAAGCGTCTGACACCTTCTCTGAGGAACTTCTGATGTGCTCAAGCTGAAAGATGATG 3020
QY 241 AATTAAAGCCGGCAGGACCTATTGAGAGCGACTTTCAGAGATTTCAGAGCAGAGATG 300
DB 3021 AATTAAAGCCGGCAGGACCTATTGAGAGCGACTTTCAGAGATTTCAGAGCAGAGATG 3080
QY 301 TACATAGGCGCTTCAGAGGGAATTGAAAAGCTGATATCATGATGACTCTTG 360
DB 3081 TACATAGGCGCTTCAGAGGGAATTGAAAAGCTGATATCATGATGACTCTTG 3140
QY 361 AGACTGACGAATATTTCTGACAGAGCGACTTTCAGAGATTTCAGAGCAGAGATG 420
DB 3141 AGACTGACGAATATTTCTGACAGAGCGACTTTCAGAGATTTCAGAGCAGAGATG 3200
QY 421 AGCCCAAGAGAGTGCCTCTGAGAGAGAGCCAGAAATGTCACCTGCGCTTCTACAGAAAGC 480
DB 3201 AGCCCAAGAGAGTGCCTCTGAGAGAGAGCCAGAAATGTCACCTGCGCTTCTACAGAAAGC 3260
QY 481 AGGCTGAGAGAGTGCATTACTGAGTGGAAAATTGAACTGCACTCCGCTGACTGAGCAGA 540
DB 3261 AGGCTGAGAGAGTGCATTACTGAGTGGAAAATTGAACTGCACTCCGCTGACTGAGCAGA 3320
QY 541 GAAAAATATGATGAGAGACCTTTCAGAAAGCTCAGAGACCTTTCAGAGCAGAGATGAGCTGG 600
DB 3321 GAAAAATATGATGAGAGACCTTTCAGAAAGCTCAGAGACCTTTCAGAGCAGAGATGAGCTGG 3380
QY 601 ACCTCAAGCTGCGCAGAGTGAAGTATCAAGAGATCTGAGAGCCGCTGAGAGATCTCC 660
DB 3381 ACCTCAAGCTGCGCAGAGTGAAGTATCAAGAGATCTGAGAGCCGCTGAGAGATCTCC 3440
QY 661 TCATTGACCTCTCCAGAGATCACTTCGAGAAAGTCAAGGCACTTTCAGAGAGAAATTTGCGC 720
DB 3441 TCATTGACCTCTCCAGAGATCACTTCGAGAAAGTCAAGGCACTTTCAGAGAGAAATTTGCGC 3500
QY 721 CTCTGAAAGAGAGAGTGAAGCCAGTCAATGACCTTTCGAGAGCTTTCAGAGAGCTTTCG 780
DB 3501 CTCTGAAAGAGAGAGTGAAGCCAGTCAATGACCTTTCGAGAGCTTTCAGAGAGCTTTCG 3560
QY 781 TTCAAGCTCTCAACCGATTAACCTCAGACCTTCGAGAGACCTTTCAGAGATGAAAGCTTC 840
DB 3561 TTCAAGCTCTCAACCGATTAACCTCAGACCTTCGAGAGACCTTTCAGAGATGAAAGCTTC 3620
QY 841 TGCAGGTGCGCGTGCAGAGACGAGTCAAGGCTGAGAGAGCCAGAGAGAGCTTTCGTC 900
DB 3621 TGCAGGTGCGCGTGCAGAGACGAGTCAAGGCTGAGAGAGCCAGAGAGAGCTTTCGTC 3680
QY 901 CAGCATCTCAGACCTTTCCTTTCAGAGTCTGTCAGAGGTCCTTCGAGAGAGAGCTTTCGTC 960
DB 3681 CAGCATCTCAGACCTTTCCTTTCAGAGTCTGTCAGAGGTCCTTCGAGAGAGAGCTTTCGTC 3740
QY 961 CAAAAGAGTGCCTCTACTATATCAACAGAGATTCAGAACTTTCGAGAGAGCTTTCGTC 1020
DB 3741 CAAAAGAGTGCCTCTACTATATCAACAGAGATTCAGAACTTTCGAGAGAGCTTTCGTC 3800
QY 1021 AATATGACAGAGCTTTCAGAGTCTTTCAGAGCTTTCAGAGTTCAGAGTTCAGAGCTTTC 1080
DB 3801 AATATGACAGAGCTTTCAGAGTCTTTCAGAGCTTTCAGAGTTCAGAGTTCAGAGCTTTC 3860
QY 1081 GGAAGCGTGCAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGCTTTC 1140
DB 3861 GGAAGCGTGCAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGCTTTC 3920
QY 1141 CAGCTGATGATGATGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTC 1200
DB 3921 CAGCTGATGATGATGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTCAGAGAGCTTTC 3980

QY 1201 TCTGACAGATTATTAATTGTTTGAACACATATTATGACCGCTGAGCAAGACACA 1260
DB 3981 TCTGACAGATTATTAATTGTTTGAACACATATTATGACCGCTGAGCAAGACACA 4040
QY 1261 AATTGGTCAAGCTCCCTCTGCGGTGATATGTGTCTGAACTGCTGTAATGTTATG 1320
DB 4041 AATTGGTCAAGCTCCCTCTGCGGTGATATGTGTCTGAACTGCTGTAATGTTATG 4100
QY 1321 ATACGGAGCAAGAGGAGATCCGTGCTGCTGCTTTCATTAAGAGTGCATTCCTGCT 1380
DB 4101 ATACGGAGCAAGAGGAGATCCGTGCTGCTGCTTTCATTAAGAGTGCATTCCTGCT 4160
QY 1381 GTAAAGCATTTCGAAAGACATGACATACCTTTCAGAGCAGAGTGCAGAGTCAAG 4220
DB 4161 GTAAAGCATTTCGAAAGACATGACATACCTTTCAGAGCAGAGTGCAGAGTCAAG 4280
QY 1441 GATTTCGACAGAGGAGGCTGCGCTCTTCGAGATTCATTCATTCATTCATTCATTC 1500
DB 4221 GATTTCGACAGAGGAGGCTGCGCTCTTCGAGATTCATTCATTCATTCATTCATTC 4280
QY 1501 A 1501
DB 4281 A 4281

RESULT 11

US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCACACAGATGTTTATCAACCTGATGAAACAGCCAAATAATCTGAGATCCCTGG 60
DB 2851 CTCACACAGATGTTTATCAACCTGATGAAACAGCCAAATAATCTGAGATCCCTGG 2910
QY 61 AAGGTTCCGATGATGAGTCTGTTTCAAAAGCGTTTGATTAACATGAATTCAGATGGA 120
DB 2911 AAGGTTCCGATGATGAGTCTGTTTCAAAAGCGTTTGATTAACATGAATTCAGATGGA 2970
QY 121 GTGAACCTTCGAAAAAGTCTCAACATTAAGTCCCATTTGGAAGCCAGTTTCAGCCAGT 180
DB 2971 GTGAACCTTCGAAAAAGTCTCAACATTAAGTCCCATTTGGAAGCCAGTTTCAGCCAGT 3030
QY 181 GGAAGCGTGCAGCTTCTCTGACAGAACTTCTGATGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 3031 GGAAGCGTGCAGCTTCTCTGACAGAACTTCTGATGCTGCTGCTGCTGCTGCTGCTGCTG 3090
QY 241 AATTAAAGCCGGGAGGACCTTATGAGAGCGACTTTCAGAGCTTTCAGAGAGAGAGATG 300
DB 3091 AATTAAAGCCGGGAGGACCTTATGAGAGCGACTTTCAGAGCTTTCAGAGAGAGAGATG 3150
QY 301 TACATAGGCGCTTTCAGAGGGAATTGAAAAGCTTAAAGAACCTGATATGATGATGCTTTC 360
DB 3151 TACATAGGCGCTTTCAGAGGGAATTGAAAAGCTTAAAGAACCTGATATGATGATGCTTTC 3210

QY 361 AGACTGACGAATATTTCTGACAGAGCAGCCCTTGGAAAGACTAGAGAACTCTACAGG 420
DB 3211 AGACTGACGAATATTTCTGACAGAGCAGCCCTTGGAAAGACTAGAGAACTCTACAGG 3270
QY 421 AGCCGAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCATCTGCGCTTCTACGAAAGC 480
DB 3271 AGCCGAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGTCATCTGCGCTTCTACGAAAGC 3330
QY 481 AGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGATGGCAGA 540
DB 3331 AGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACCTGCACTCCGCTGATGGCAGA 3390
QY 541 GAAAAATGATGAGAGCCCTTGGAAAGACTCCAGAACTTCAAGAGGCCAGAGTAGCTGG 600
DB 3391 GAAAAATGATGAGAGCCCTTGGAAAGACTCCAGAACTTCAAGAGGCCAGAGTAGCTGG 3450
QY 601 ACCTCAAGCTGCGCCAGAGCTGAGTGAATCAAGGATCTGCGAGCCGCTGGCGATCTCC 660
DB 3451 ACCTCAAGCTGCGCCAGAGCTGAGTGAATCAAGGATCTGCGAGCCGCTGGCGATCTCC 3510
QY 661 TCATTGATCTCTCTCCAAATCACTTCGAGAAAGTCAAGGACCTTGAGAGAGAAATTTGGCG 720
DB 3511 TCATTGATCTCTCTCCAAATCACTTCGAGAAAGTCAAGGACCTTGAGAGAGAAATTTGGCG 3570
QY 721 CTCTGAAAGAGAAAGTGAGCAAGCTCAATGACCTTGTCTGCGAGCTTCACTTTGGGCA 780
DB 3571 CTCTGAAAGAGAAAGTGAGCAAGCTCAATGACCTTGTCTGCGAGCTTCACTTTGGGCA 3630
QY 781 TTCAGCTCTCAAGCTGATTAAGCTCAGACCTTGAAGAGCTGTAACCAAGATGAGATTTC 840
DB 3631 TTCAGCTCTCAAGCTGATTAAGCTCAGACCTTGAAGAGCTGTAACCAAGATGAGATTTC 3690
QY 841 TGCAGGTGGCGCTGAGAGACGAGTCAAGCAGCTGATGAAAGCCCAACGGGACTTTGGTC 900
DB 3691 TGCAGGTGGCGCTGAGAGACGAGTCAAGCAGCTGATGAAAGCCCAACGGGACTTTGGTC 3750
QY 901 CAGAGCTCAGACCTTTTCCAGCTGCTCAGAGGCTCCGCGGAGAGAGCCATCTGCG 960
DB 3751 CAGAGCTCAGACCTTTTCCAGCTGCTCAGAGGCTCCGCGGAGAGAGCCATCTGCG 3810
QY 961 CAACCAAAAGTCCCTACTATATCAACCAAGAGACTCAACAACTTGTGGGACCATCCCA 1020
DB 3811 CAACCAAAAGTCCCTACTATATCAACCAAGAGACTCAACAACTTGTGGGACCATCCCA 3870
QY 1021 AAATGACAGAGCTCTACAGCTTTTAACTGATCTGATATATGTCAGATTCTCAGTTATA 1080
DB 3871 AAATGACAGAGCTCTACAGCTTTTAACTGATCTGATATATGTCAGATTCTCAGTTATA 3930
QY 1081 GGACTGCGCATTAAGTCCGAAAGACTGCAAGAGGCCCTTGTGCTGATCTCTTGAAGCCGT 1140
DB 3931 GGACTGCGCATTAAGTCCGAAAGACTGCAAGAGGCCCTTGTGCTGATCTCTTGAAGCCGT 3990
QY 1141 CAGCTGACGTGATGCTTGGACCAAGCAAACTTCAAGCAAAATGACCAAGCCCATGATA 1200
DB 3991 CAGCTGACGTGATGCTTGGACCAAGCAAACTTCAAGCAAAATGACCAAGCCCATGATA 4050
QY 1201 TCTGCGAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACCAACA 1260
DB 4051 TCTGCGAGATTATTAATTTGTTGACCACTATTTATGACCGCTGAGCAAGACCAACA 4110
QY 1261 ATTTGGTCAAGTCCCTCTGCGGAGTATGTTGTCGAACCTGAGTGTGTAATGTTTATG 1320
DB 4111 ATTTGGTCAAGTCCCTCTGCGGAGTATGTTGTCGAACCTGAGTGTGTAATGTTTATG 4170
QY 1321 ATAGCGAGAGCAAGGAGAGATCCGCTGTCTGTCTTTTAAACTGGCATCTTCCCTGT 1380
DB 4171 ATAGCGAGAGCAAGGAGAGATCCGCTGTCTGTCTTTTAAACTGGCATCTTCCCTGT 4230
QY 1381 GTAAAGCACTTTTGAAGACAAATGACAGATCTTTTCAAGCAAGTGGCAAGTTCAAG 1440
DB 4231 GTAAAGCACTTTTGAAGACAAATGACAGATCTTTTCAAGCAAGTGGCAAGTTCAAG 4290

QY 1441 GATTTTGTGACAGCGAGAGCTGGGCTCTTCTGACATGATTTCAATTCAGAGC 1500
DB 4291 GATTTTGTGACAGCGAGAGCTGGGCTCTTCTGACATGATTTCAATTCAGAGC 4350
QY 1501 A 1501
DB 4351 A 4351

RESULT 12
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 100.0%; Score 1501; DB 10; Length 5149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCACACGATGTTTATCAACAACCTGATGTAAGAAAAAGCCAAAAAATCTGAGATCCTGG 60
DB 2940 CTCACACGATGTTTATCAACAACCTGATGTAAGAAAAAGCCAAAAAATCTGAGATCCTGG 2999
QY 61 AAGGTTCCGATGAGAGAGTCCCTGTTTAAAGAAAGCTTTGGATTAACATGAACTTCAAGTGA 120
DB 3000 AAGGTTCCGATGAGAGAGTCCCTGTTTAAAGAAAGCTTTGGATTAACATGAACTTCAAGTGA 3059
QY 121 GTGAACCTCGGAAAAAGTCTCTCAACATTTAGTCCATTTTGGAAAGCCAGTTCTGACAGT 180
DB 3060 GTGAACCTCGGAAAAAGTCTCTCAACATTTAGTCCATTTTGGAAAGCCAGTTCTGACAGT 3119
QY 181 GGAAGCGTCTGACCTTTCTCTGCAAGAACTTGTGTGTGCTCAAGCTGAAAGATGATG 240
DB 3120 GGAAGCGTCTGACCTTTCTCTGCAAGAACTTGTGTGTGCTCAAGCTGAAAGATGATG 3179
QY 241 AATTAGCCGCGACAGCACTTATTTGAGGCGCACTTTCAGAGATTCAAGAGAGAAAGCATG 300
DB 3180 AATTAGCCGCGACAGCACTTATTTGAGGCGCACTTTCAGAGATTCAAGAGAGAAAGCATG 3239
QY 301 TACATAGGCGCTTCAAGAGGGAATTTGAAACTTAAGAACTGTATCATGATGACTCTTG 360
DB 3240 TACATAGGCGCTTCAAGAGGGAATTTGAAACTTAAGAACTGTATCATGATGACTCTTG 3299
QY 361 AGACTGTACGAATATTTCTGACAGAGAGCTTTTGAAGAGCTAGAGAACTTACAGAG 420
DB 3300 AGACTGTACGAATATTTCTGACAGAGAGCTTTTGAAGAGCTAGAGAACTTACAGAG 3359
QY 421 AGCCGAGAGAGTCCCTCTGAGAGAGAGAGCCAGAAATGTCATCTGCGCTTCAAGAAAGC 480
DB 3360 AGCCGAGAGAGTCCCTCTGAGAGAGAGAGCCAGAAATGTCATCTGCGCTTCAAGAAAGC 3419
QY 481 AGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACTTCACTGCGCTGATGGCAGA 540
DB 3420 AGGCTGAGAGAGTCAATCTGAGTGGGAAAAATTGAACTTCACTGCGCTGATGGCAGA 3479
QY 541 GAAAAATGATGAGACCTTTGAAAGACTTCAGAACTTCAAGAGGCCAGAGTAGCTGG 600
DB 3480 GAAAAATGATGAGACCTTTGAAAGACTTCAGAACTTCAAGAGGCCAGAGTAGCTGG 3539

QY 601 ACCTCAAGCTGCGCAAGCTGAGGATCAAGGATCTCTGGACAGCCCTGCGCATCTCC 660
Db 3540 ACCTCAAGCTGCGCAAGCTGAGGATCAAGGATCTCTGGACAGCCCTGCGCATCTCC 3599
QY 661 TCATTGACTCTCTCAAGATCACTCGAAGAGTCAAGGACTTTCAGAGAAATTCGCG 720
Db 3600 TCATTGACTCTCTCAAGATCACTCGAAGAGTCAAGGACTTTCAGAGAAATTCGCG 3659
QY 721 CTCTGAAGAGAGTGAAGCACTCAATGACCTTGTCTCCAGCTTACCACTTTGCGCA 780
Db 3660 CTCTGAAGAGAGTGAAGCACTCAATGACCTTGTCTCCAGCTTACCACTTTGCGCA 3719
QY 781 TTCAGCTCTCAAGCTATTAACCTGACACTTGAAGAGCTGAACACAGATGGAAGCTTC 840
Db 3720 TTCAGCTCTCAAGCTATTAACCTGACACTTGAAGAGCTGAACACAGATGGAAGCTTC 3779
QY 841 TGCAGGTGGCGCTGAGAGACCGAGTCAAGGAGCTGATGAAGCCACAGGAACTTTGATC 900
Db 3780 TGCAGGTGGCGCTGAGAGACCGAGTCAAGGAGCTGATGAAGCCACAGGAACTTTGATC 3839
QY 901 CAGCATCTCAGCACTTCTTTCACGCTGTCCAGGGTCCCTGGAGAGAGCCATTCGCG 960
Db 3840 CAGCATCTCAGCACTTCTTTCACGCTGTCCAGGGTCCCTGGAGAGAGCCATTCGCG 3899
QY 961 CAAACAAAGTCCCTCTATATCAACACGAGACTCAACAACTTGTGGAGCAATCCCA 1020
Db 3900 CAAACAAAGTCCCTCTATATCAACACGAGACTCAACAACTTGTGGAGCAATCCCA 3959
QY 1021 AATGACAGAGCTCTACAGCTTTTACGACCTGAATTAATGATCTCAAGCTTATA 1080
Db 3960 AATGACAGAGCTCTACAGCTTTTACGACCTGAATTAATGATCTCAAGCTTATA 4019
QY 1081 GGAATGCTGAAACTCCGAGAGCTGACAGAGGCCCTTGTGGATCTTTGAGCTGT 1140
Db 4020 GGAATGCTGAAACTCCGAGAGCTGACAGAGGCCCTTGTGGATCTTTGAGCTGT 4079
QY 1141 CAGCTGACATGATGCTTGGACGACCAACCTCAAGCAAAATGACAGCCCATGATA 1200
Db 4080 CAGCTGACATGATGCTTGGACGACCAACCTCAAGCAAAATGACAGCCCATGATA 4139
QY 1201 TCTCTCAAGATTATTAATTGTTGACCACTATTTATGACCGCTGGAGCAAGGACAA 1260
Db 4140 TCTCTCAAGATTATTAATTGTTGACCACTATTTATGACCGCTGGAGCAAGGACAA 4199
QY 1261 ATTGCTGAAGCTCCCTCTCTGCGTGAATATGCTGAACTGCTGCTGAATGTTATG 1320
Db 4200 ATTGCTGAAGCTCCCTCTCTGCGTGAATATGCTGAACTGCTGCTGAATGTTATG 4259
QY 1321 ATACGGAGCGAACAAGGAGATCCGCTCTCTTTTAAACCTGGATCAATTCCTGT 1380
Db 4260 ATACGGAGCGAACAAGGAGATCCGCTCTCTTTTAAACCTGGATCAATTCCTGT 4319
QY 1381 GTAAAGCACTTTGGAGAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAG 1440
Db 4320 GTAAAGCACTTTGGAGAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAG 4379
QY 1441 GATTTTGACACGACGAGCTGGGCTCTCTTGGACATGATCTATCAAAATTCAGAG 1500
Db 4380 GATTTTGACACGACGAGCTGGGCTCTCTTGGACATGATCTATCAAAATTCAGAG 4439
QY 1501 A 1501
Db 4440 A 4440

RESULT 13

US-10-149-736-40
; Sequence 40, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.

; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149, 736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238, 848
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 40
; LENGTH: 5339
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-40

Query Match 100.0%; Score 1501; DB 17; Length 5339;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCACAGAGTGTATCAACACCTGGATGAAGCAAGCCAAATCTTGAATCCCTTG 60
Db 1725 CTCACAGAGTGTATCAACACCTGGATGAAGCAAGCCAAATCTTGAATCCCTTG 1784
QY 61 AAGGTTCCGATGATGCAAGCTCTGTTAACAAGCTTTGATTAATGATCAATGATGA 120
Db 1785 AAGGTTCCGATGATGCAAGCTCTGTTAACAAGCTTTGATTAATGATCAATGATGA 1844
QY 121 GTGAATCTGGAAAAAGTCTCAACATTAAGTCCATTTGGAGGCAATTTGACCACT 180
Db 1845 GTGAATCTGGAAAAAGTCTCAACATTAAGTCCATTTGGAGGCAATTTGACCACT 1904
QY 181 GGAAGCTGTGACCTTCTCTGACAGAACTTCTGCTGTGCTGACAGCTGAAGATGATG 240
Db 1905 GGAAGCTGTGACCTTCTCTGACAGAACTTCTGCTGTGCTGACAGCTGAAGATGATG 1964
QY 241 AATTAGCCGGAGGACCTATTTGGAGGCACTTTCAGCACTTCAAGACAGATG 300
Db 1965 AATTAGCCGGAGGACCTATTTGGAGGCACTTTCAGCACTTCAAGACAGATG 2024
QY 301 TACATAGGCTCTTCAAGAGGAAATTGAACCTGATTAATGATGATCTCTG 360
Db 2025 TACATAGGCTCTTCAAGAGGAAATTGAACCTGATTAATGATGATCTCTG 2084
QY 361 AGACTGTAGATATTTCTGACAGAGCCTTTGGAAGACTAGAGAACTTACCAAG 420
Db 2085 AGACTGTAGATATTTCTGACAGAGCCTTTGGAAGACTAGAGAACTTACCAAG 2144
QY 421 AGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGATCACTCGGTTTACGAAAGC 480
Db 2145 AGCCAGAGAGCTGCTCTGAGAGAGAGCCAGAAATGATCACTCGGTTTACGAAAGC 2204
QY 481 AGCTGAGAGGTCATATCTAGATGGAAAAATTTGAACCTGCACTCGCTGACGAGAG 540
Db 2205 AGCTGAGAGGTCATATCTAGATGGAAAAATTTGAACCTGCACTCGCTGACGAGAG 2264
QY 541 GAAAAATGATGAGACCTTGAAGACTCCAGAGAACTTCAAGAGGCAAGGATGAGCTGG 600
Db 2265 GAAAAATGATGAGACCTTGAAGACTCCAGAGAACTTCAAGAGGCAAGGATGAGCTGG 2324
QY 601 ACCTCAAGCTGCGCAAGCTGAGTGAATCAAGGATCTTGGAGCCGCTGGAGCATCTCC 660
Db 2325 ACCTCAAGCTGCGCAAGCTGAGTGAATCAAGGATCTTGGAGCCGCTGGAGCATCTCC 2384
QY 661 TCATTGACTCTCTCAAGATCACTCGAAGAGTCAAGGCACTTTCAGAGAAATTCGCG 720
Db 2385 TCATTGACTCTCTCAAGATCACTCGAAGAGTCAAGGCACTTTCAGAGAAATTCGCG 2444
QY 721 CTCTGAAGAGAGTGAAGCACTCAATGACCTTGTCTGCGCACTTACCACTTTGGGCA 780
Db 2445 CTCTGAAGAGAGTGAAGCACTCAATGACCTTGTCTGCGCACTTACCACTTTGGGCA 2504

QY 781 TTCACTCTCAACCGTATPAACTCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 840
| | | | |
Db 2505 TTCAAGCTCTCAACCGTATPAACTCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 2564
| | | | |
QY 841 TGCAGTGGCCGCTGAGGAGCCGAGTCAAGGACAGCTGATGAAGCCGACAGGGACTTTGGTC 900
| | | | |
Db 2665 TGCAGTGGCCGCTGAGGAGCCGAGTCAAGGACAGCTGATGAAGCCGACAGGGACTTTGGTC 2624
| | | | |
QY 901 CAGCATCTCAGCACTTTCTTTCCAGCTGTCTGTCAGAGGCTCCCTGGGAGAGAGCCATCTGCG 960
| | | | |
Db 2625 CAGCATCTCAGCACTTTCTTTCCAGCTGTCTGTCAGAGGCTCCCTGGGAGAGAGCCATCTGCG 2684
| | | | |
QY 961 CAAACAAAGTCCCTCTATATATCAACACAGAGACTCAACAAACTGTGGGACCATCCCA 1020
| | | | |
Db 2685 CAAACAAAGTCCCTCTATATATCAACACAGAGACTCAACAAACTGTGGGACCATCCCA 2744
| | | | |
QY 1021 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGGAATATGTCAAGATTCTCAGCTTATA 1080
| | | | |
Db 2745 AAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGGAATATGTCAAGATTCTCAGCTTATA 2804
| | | | |
QY 1081 GGACTGCCATTAACCTCCGAGAGCTGCAAGAGCCCTTTGCTTGGATCTCTTGAAGCTGT 1140
| | | | |
Db 2805 GGACTGCCATTAACCTCCGAGAGCTGCAAGAGCCCTTTGCTTGGATCTCTTGAAGCTGT 2864
| | | | |
QY 1141 CAGCTGACATGATGCTTTGGACAGACCAACCTCAAGCAAAATGACAGCCCATGATTA 1200
| | | | |
Db 2865 CAGCTGACATGATGCTTTGGACAGACCAACCTCAAGCAAAATGACAGCCCATGATTA 2924
| | | | |
QY 1201 TCCTGACAGATTATTAATTGTTTGAACACTATTATTATGACCGCTGAGGACAGACACA 1260
| | | | |
Db 2925 TCCTGACAGATTATTAATTGTTTGAACACTATTATTATGACCGCTGAGGACAGACACA 2984
| | | | |
QY 1261 ATTTGGTCAAGTCCCTCTCTGCGGTGATATGTGTCTGAACCTGGCTGTGAATGTTATG 1320
| | | | |
Db 2985 ATTTGGTCAAGTCCCTCTCTGCGGTGATATGTGTCTGAACCTGGCTGTGAATGTTATG 3044
| | | | |
QY 1321 ATACGGGACGAAACGAGGAGATCCGTCCTGCTTTTAAAACTGGCATCTTCCCTGT 1380
| | | | |
Db 3045 ATACGGGACGAAACGAGGAGATCCGTCCTGCTTTTAAAACTGGCATCTTCCCTGT 3104
| | | | |
QY 1381 GTAAAGCATTGTAAGACAGATACAGATACCTTTTCAAGCAATGGCAAGTTCAACAG 1440
| | | | |
Db 3105 GTAAAGCATTGTAAGACAGATACAGATACCTTTTCAAGCAATGGCAAGTTCAACAG 3164
| | | | |
QY 1441 GATTTTGTGACAGCGCAGGCTGGGCTCTCTTCTGCAATGATTCTTCAAAATTCGAAGAC 1500
| | | | |
Db 3165 GATTTTGTGACAGCGCAGGCTGGGCTCTCTTCTGCAATGATTCTTCAAAATTCGAAGAC 3224
| | | | |
QY 1501 A 1501
| | | | |
Db 3225 A 3225
| | | | |

RESULT 14
US-10-149-736-41
; Sequence 41, Application US/10149736
; Publication No. US2003021632A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott O.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06368
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 5462

TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-41
Query Match 100.0%; Score 1501; DB 17; Length 5462;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTCACACAGATGTTTATATCAACCTGATGTAAGAAACGCCAAAATCTGTAGATCCCTGG 60
| | | | |
Db 1848 CTCACACAGATGTTTATCAACCTGATGTAAGAAACGCCAAAATCTGTAGATCCCTGG 1907
| | | | |
QY 61 AAGGTTCCGATGATGACAGTCCCTGTTACAAAGACGTTGGATATCACTTAAGTGA 120
| | | | |
Db 1908 AAGGTTCCGATGATGACAGTCCCTGTTACAAAGACGTTGGATATCACTTAAGTGA 1967
| | | | |
QY 121 GTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGAAAGCCAGTTCTGACAGT 180
| | | | |
Db 1968 GTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCATTTGAAAGCCAGTTCTGACAGT 2027
| | | | |
QY 181 GGAAGCGTCTGACCTTTCTCTGCAAGAACTTTGTGTGTGCTACAGTGAAGATGATG 240
| | | | |
Db 2028 GGAAGCGTCTGACCTTTCTCTGCAAGAACTTTGTGTGTGCTACAGTGAAGATGATG 2087
| | | | |
QY 241 AATTAGCCGCGACGACCTATTGGAAGCGACTTCCAGAGTTCAAGAGAGAAAGATG 300
| | | | |
Db 2088 AATTAGCCGCGACGACCTATTGGAAGCGACTTCCAGAGTTCAAGAGAGAAAGATG 2147
| | | | |
QY 301 TACATAGGCGCTTCAGAGGGAATTTGAACCTAAGAACTGTATATCATGATCTCTTG 360
| | | | |
Db 2148 TACATAGGCGCTTCAGAGGGAATTTGAACCTAAGAACTGTATATCATGATCTCTTG 2207
| | | | |
QY 361 AGACTGTACGAATATTTTGTGACAGAGCGCTTTGGAAGACTGAGAAACTTACACAG 420
| | | | |
Db 2208 AGACTGTACGAATATTTTGTGACAGAGCGCTTTGGAAGACTGAGAAACTTACACAG 2267
| | | | |
QY 421 AGCCGAGAGACCTGCTCTGAGGAGAGGCGCAAGATGTCACTCGGCTTCAAGAAAGC 480
| | | | |
Db 2268 AGCCGAGAGACCTGCTCTGAGGAGAGGCGCAAGATGTCACTCGGCTTCAAGAAAGC 2327
| | | | |
QY 481 AGGCTGAGAGAGTCAATACGATGAGGAAAAATTGAACCTGCACTCGCTGACCTGAGAGA 540
| | | | |
Db 2328 AGGCTGAGAGAGTCAATACGATGAGGAAAAATTGAACCTGCACTCGCTGACCTGAGAGA 2387
| | | | |
QY 541 GAAAAATATGATGAGACCTTGAAGAGCTCCAGAACTTCAAGAGGCCACGATAGCTGG 600
| | | | |
Db 2388 GAAAAATATGATGAGACCTTGAAGAGCTCCAGAACTTCAAGAGGCCACGATAGCTGG 2447
| | | | |
QY 601 ACCCTCAAGCTGCGCAAGCTGATGATCAAGGATCCTGGCAGCCGCTGGGCGATCTCC 660
| | | | |
Db 2448 ACCCTCAAGCTGCGCAAGCTGATGATCAAGGATCCTGGCAGCCGCTGGGCGATCTCC 2507
| | | | |
QY 661 TCATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTTCAGAGAGAAATTTGGC 720
| | | | |
Db 2508 TCATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTTCAGAGAGAAATTTGGC 2567
| | | | |
QY 721 CTCTGAAGAGACGATGAGCCAGCTCAATGACTTTGCTGCGCAGCTTACCACTTTGGGCA 780
| | | | |
Db 2568 CTCTGAAGAGAGACGATGAGCCAGCTCAATGACTTTGCTGCGCAGCTTACCACTTTGGGCA 2627
| | | | |
QY 781 TTCAAGCTCTCAACCGTATPAACTCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 840
| | | | |
Db 2628 TTCAAGCTCTCAACCGTATPAACTCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTC 2687
| | | | |
QY 841 TGCAGTGGCCGCTGAGGAGCCGAGTCAAGGACAGCTGATGAAGCCGACAGGGACTTTGGTC 900
| | | | |
Db 2688 TGCAGTGGCCGCTGAGGAGCCGAGTCAAGGACAGCTGATGAAGCCGACAGGGACTTTGGTC 2747
| | | | |
QY 901 CAGCATCTCAGCACTTTCTTTCCAGCTGTCTGTCAGAGGCTCCCTGGGAGAGAGCCATCTGCG 960
| | | | |
Db 2748 CAGCATCTCAGCACTTTCTTTCCAGCTGTCTGTCAGAGGCTCCCTGGGAGAGAGCCATCTGCG 2807
| | | | |

QY 961 CAAACAAAGTCCCTACTATATATCAACACGAGACTCAAAACATTGCTGGGACCATCCCA 1020
DB 2808 CAAACAAAGTCCCTACTATATATCAACACGAGACTCAAAACATTGCTGGGACCATCCCA 2867
QY 1021 AAATGACAGAGCTCTTACCAAGCTCTTTAGCTGACCTGAATTAATGTCAATTTCTCAGTTAAT 1080
DB 2868 AAATGACAGAGCTCTTACCAAGCTCTTTAGCTGACCTGAATTAATGTCAATTTCTCAGTTAAT 2927
QY 1081 GAGCTGCATGAAACCTCCGAAGACTGAGAAAGCCCTTGGCTTGAATCTTTGAGCCTGT 1140
DB 2928 GAGCTGCATGAAACCTCCGAAGACTGAGAAAGCCCTTGGCTTGAATCTTTGAGCCTGT 2987
QY 1141 CAGCTGATGTGATGCTTGGACACAGCAACCTCAAGCAAAATGACCAAGCCCATGATAT 1200
DB 2988 CAGCTGATGTGATGCTTGGACACAGCAACCTCAAGCAAAATGACCAAGCCCATGATAT 3047
QY 1201 TCCGCGAGATTATTAATTTGTTTGAACATTTATATGACCGCTGAGCAAGACACACAA 1260
DB 3048 TCCGCGAGATTATTAATTTGTTTGAACATTTATATGACCGCTGAGCAAGACACACAA 3107
QY 1261 ATTTGGTCAACGTCCCTCTCTGCGTGAATATGTCTGAACCTGGCTGTGAATGTTATG 1320
DB 3108 ATTTGGTCAACGTCCCTCTCTGCGTGAATATGTCTGAACCTGGCTGTGAATGTTATG 3167
QY 1321 ATACGGGACGAACAGGAGAGATCCGTGCTCTTTTAAACTGGCATCATTTCCCTGT 1380
DB 3168 ATACGGGACGAACAGGAGAGATCCGTGCTCTTTTAAACTGGCATCATTTCCCTGT 3227
QY 1381 GTAAACCACTTTGGAAGACAGATCAGATACCTTTTCAAGCAATGGCAATTTCAACAG 1440
DB 3228 GTAAACCACTTTGGAAGACAGATCAGATACCTTTTCAAGCAATGGCAATTTCAACAG 3287
QY 1441 GATTTGTGACAGCGCGAGGCTGGGCTTCTTCTGATGATTTCTCAAAATTTCCAAAGC 1500
DB 3288 GATTTGTGACAGCGCGAGGCTGGGCTTCTTCTGATGATTTCTCAAAATTTCCAAAGC 3347
QY 1501 A 1501
DB 3348 A 3348

RESULT 15
US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match 100.0%; Score 1501; DB 17; Length 8689;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTCACACAGATGTTATCAACAACCTGATGATAAAACGCCAAAATCTCGAGATCCCTGG 60
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DB 3180 CTCACACAGATGTTATCAACAACCTGATGATAAAACGCCAAAATCTCGAGATCCCTGG 3239
QY 61 AAGTTCCGATGATGACAGTCTCTGTTACAAAGACGTTTGGATTAACATGAATCTCAAGTGA 120
DB 3240 AAGTTCCGATGATGACAGTCTCTGTTACAAAGACGTTTGGATTAACATGAATCTCAAGTGA 3299
QY 121 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACAGT 180
DB 3300 GTGAACCTTGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTGACAGT 3359
QY 181 GGAACGCTGTGACCTTTCTCTGACAGGAATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
DB 3360 GGAACGCTGTGACCTTTCTCTGACAGGAATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 3419
QY 241 AATTAGCGGACGACCTTATTTGAGGCGACTTTTCCAGCAGTTTCAAGACAGAACGATG 300
DB 3420 AATTAGCGGACGACCTTATTTGAGGCGACTTTTCCAGCAGTTTCAAGACAGAACGATG 3479
QY 301 TACATAGGGCTTGAAGAGGGAATTTGAACCTTAAGAACTGTATATGATGATCTTTG 360
DB 3480 TACATAGGGCTTGAAGAGGGAATTTGAACCTTAAGAACTGTATATGATGATCTTTG 3539
QY 361 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTACAGG 420
DB 3540 AGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAGACTAGAGAACTCTACAGG 3599
QY 421 AGCCGAGAGCTGCTCTCTGAGAGAGAGCCGAGAAATGCTACTGCGCTTTTCAAGAAAGC 480
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QY 481 AGGCTGAGAGGTCATTAATCTGAGTGGGAAAAATTTGAACCTGCACTCGCTGATGCGCACA 540
DB 3660 AGGCTGAGAGGTCATTAATCTGAGTGGGAAAAATTTGAACCTGCACTCGCTGATGCGCACA 3719
QY 541 GAAAAATATGATGAGACCTTTGAAAAGCTCCAGGAACCTTCAAGAGCCAGATGAGTGC 600
DB 3720 GAAAAATATGATGAGACCTTTGAAAAGCTCCAGGAACCTTCAAGAGCCAGATGAGTGC 3779
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DB 3780 ACCCTAAGCTGGGCGCAAGCTGAGTGAAGGATCTTGGGAGCCCTGGGCGATCTTC 3839
QY 661 TCATTTGATCTCTCCAAAGTCACTTCGAGAAAGTCAAGGACCTTCAAGGAGAAATTTGCGC 720
DB 3840 TCATTTGATCTCTCCAAAGTCACTTCGAGAAAGTCAAGGACCTTCAAGGAGAAATTTGCGC 3899
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QY 781 TTCAGCTCTCAACCGTATTAACCTCAGACCTCTGGAAGACCTGAACCAAGATGGAAGCTTC 840
DB 3960 TTCAGCTCTCAACCGTATTAACCTCAGACCTCTGGAAGACCTGAACCAAGATGGAAGCTTC 4019
QY 841 TGCAGTGGCCCTCGAGAGCCGAGTGTGAGCAGCTGATGAAAGCCCAAGAGGACTTTGTGC 900
DB 4020 TGCAGTGGCCCTCGAGAGCCGAGTGTGAGCAGCTGATGAAAGCCCAAGAGGACTTTGTGC 4079
QY 901 CAGCATCTCAGACCTTTCTTTTCCAGTGTGTCAGGGTCCCTGGAGAGAGACCATCTTGC 960
DB 4080 CAGCATCTCAGACCTTTCTTTTCCAGTGTGTCAGGGTCCCTGGAGAGAGACCATCTTGC 4139
QY 961 CAAACAAAGTCCCTACTATATCAACCAAGACTCAAAACAACTTGTGGGACCATCCCA 1020
DB 4140 CAAACAAAGTCCCTACTATATCAACCAAGACTCAAAACAACTTGTGGGACCATCCCA 4199
QY 1021 AAATGACAGAGCTCTTACCAAGCTCTTTAGCTGACCTGAATTAATGTCAATTTCTCAGTTAAT 1080
DB 4200 AAATGACAGAGCTCTTACCAAGCTCTTTAGCTGACCTGAATTAATGTCAATTTCTCAGTTAAT 4259
QY 1081 GAGCTGCATGAAACCTCCGAAGACTGAGAAAGCCCTTGGCTTGAATCTTTGAGCCTGT 1140
DB 4260 GAGCTGCATGAAACCTCCGAAGACTGAGAAAGCCCTTGGCTTGAATCTTTGAGCCTGT 4319

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QY 1141 CAGCTGCATGTGATGCTTGGACCGACACAACCTCAAGCAAAATGACCGCCATGGATA 1200
Db 4320 CAGCTGCATGTGATGCTTGGACCGACACAACCTCAAGCAAAATGACCGCCATGGATA 4379
QY 1201 TCCTGCAGATTATTAAATTGTTGAACCACTATTATGACCGCTGGAGCAAGACACA 1260
Db 4380 TCCTGCAGATTATTAAATTGTTGAACCACTATTATGACCGCTGGAGCAAGACACA 4439
QY 1261 ATTTGCTCAAGTCCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGTAATGTTATG 1320
Db 4440 ATTTGCTCAAGTCCCTCTCTGCGTGATATGTGTCTGAACCTGGCTGTAATGTTATG 4499
QY 1321 ATACGGGACGAACAGGAGATCCGTCTGTCTTTAAACTGGCATCTTCCCTGT 1380
Db 4500 ATACGGGACGAACAGGAGATCCGTCTGTCTTTAAACTGGCATCTTCCCTGT 4559
QY 1381 GTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAGCAAGTGGCAAGTTCACAG 1440
Db 4560 GTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAGCAAGTGGCAAGTTCACAG 4619
QY 1441 GATTTTGTGACCAAGCGAGGCTGGGCTCTCTTCTGATGATTTCTATCCAAATCCAGAC 1500
Db 4620 GATTTTGTGACCAAGCGAGGCTGGGCTCTCTTCTGATGATTTCTATCCAAATCCAGAC 4679
QY 1501 A 1501
Db 4680 A 4680
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Search completed: March 2, 2005, 20:00:31
Job time : 901.381 secs

444 TTGGAGGAGCTTTCAGACAGTTCAGAGGAGAAAGATGATCATAGGGCTTCAAGAGG 503
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Db 504 AATTGAAAATTAAGAACTGTATATCATGACTACTTTGAGACTGTACGAATATTTCTGA 563
QY 241 CAGAGCAGCTTTGGAAAGACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCTTCCTG 300
Db 564 CAGAGCAGCTTTGGAAAGACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCTTCCTG 623
QY 301 AGAGAGAGCCCAATATCTACTGCTTTCTACGAAGCAGGCTGAGAGAGTCAATATCTG 360
Db 624 AGAGAGAGCCCAATATCTACTGCTTTCTACGAAGCAGGCTGAGAGAGTCAATATCTG 683
QY 361 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATATAGATGACCTTG 420
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QY 421 AAGAGCTCCAGAACTTCAAGAGAGCCAGATGAGCTGGACTTCAAGCTGCGCAAGCTG 480
Db 744 AAGAGCTCCAGAACTTCAAGAGAGCCAGATGAGCTGGACTTCAAGCTGCGCAAGCTG 803
QY 481 AGGTGATCAAGGATCCTGGCAGCCGTGGGCGATCTCCTCATTTGACTCTTCCAAATC 540
Db 804 AGGTGATCAAGGATCCTGGCAGCCGTGGGCGATCTCCTCATTTGACTCTTCCAAATC 863
QY 541 ACCTCGAAGAAAGTCAAGAGCCTTTCAGAGAAATTCGCGCTCTGAAAGAGAACTGAGCC 600
Db 864 ACCTCGAAGAAAGTCAAGAGCCTTTCAGAGAAATTCGCGCTCTGAAAGAGAACTGAGCC 923
QY 601 ACCTCATATGACTCTTGGCGCAGCTTACCATTTGGGACTTCACTCTCAACGATTAAC 660
Db 924 ACCTCATATGACTCTTGGCGCAGCTTACCATTTGGGACTTCACTCTCAACGATTAAC 983
QY 661 TCGACACTCTGGAAGCCTGAACACCAAGATGGAAGCTTCTGAGGTGGCCGTGAGAGCC 720
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Db 1104 CCAAGCTGTGTCCAGGGTCCCTGGAGAGAGCCATCTGCGCAAAAGATGCGCTCATATA 1163
QY 841 TCAACCAAGAGCTCAAACTGCTGGAGCCATCTCCAAATATGACAGAGCTTACAGCT 900
Db 1164 TCAACCAAGAGCTCAAACTGCTGGAGCCATCTCCAAATATGACAGAGCTTACAGCT 1223
QY 901 CTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGGACTGCGATGAAATCTCCGAA 960
Db 1224 CTTTAGCTGACCTGAAATATGTCAGATTCTCAGCTTATAGGACTGCGATGAAATCTCCGAA 1283
QY 961 GACTGCAAGAGCCCTTTGCTTGGATCTTGAAGCTCTGAGCTGCTGATGATGCTCTTG 1020
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QY 1021 ACCAGCAAACTCAAGAAAAATGACAGCCCATGATATCTCGAGATTTAATTTGTT 1080
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QY 1081 TGACCACTATTATGACCGCTGAGCAGAGCAACAATTTGGTCAACGTCCTCTCT 1140
Db 1404 TGACCACTATTATGACCGCTGAGCAGAGCAACAATTTGGTCAACGTCCTCTCT 1463
QY 1141 GCGTGAATATGTGCTGAATCTGGTCTGATATTTATGATACGGAGCAACAGAGAGGA 1200
Db 1464 GCGTGAATATGTGCTGAATCTGGTCTGATATTTATGATACGGAGCAACAGAGAGGA 1523
QY 1201 TCCGTGTCTGTCTTTTAAACTGCACTATTCCTCGTGAATGAAGCACTTTGAAAGACA 1260

Db 1524 TCCGTGTCTGTCTTTTAAACTGCACTATTTCCCTGTGTAAGCACTTTGAAAGACA 1583
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGGACCAAGCCAGCC 1320
Db 1584 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGGACCAAGCCAGCC 1643
QY 1321 TGGGCTCTCTTCTGCAATTTCTATCCAAATTTCCAAAGCAGTTGGGTGAATTCATCT 1380
Db 1644 TGGGCTCTCTTCTGCAATTTCTATCCAAATTTCCAAAGCAGTTGGGTGAATTCATCT 1703
QY 1381 TTGGGGGAGATGAATGAGCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATATTAAGC 1440
Db 1704 TTGGGGGAGATGAATGAGCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATATTAAGC 1763
QY 1441 CAGAGATGAAGCGCCCTCTTCTTACAGTGAATGAGTGAAGCCCAAGTCCATGAGTGT 1500
Db 1764 CAGAGATGAAGCGCCCTCTTCTTACAGTGAATGAGTGAAGCCCAAGTCCATGAGTGT 1823
QY 1501 G 1501
Db 1824 G 1824

RESULT 2
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR APPLICATION NUMBER: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 100.0%; Score 1501; DB 10; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCCAATTTGGAAGCCAGTTCTGACCAAGTGAAGCGTCTGACCTTTCTC 60
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QY 61 TGCAGGAACCTCTGATGAGGCTACAGCTGGAAGATGATGAATTTAAGCCGCGAGCACCTTA 120
Db 1733 TGCAGGAACCTCTGATGAGGCTACAGCTGGAAGATGATGAATTTAAGCCGCGAGCACCTTA 1792
QY 121 TTGAAGGCACTTTCAGACATTCAGAAAGCAGAGATGATCATATAGGAGCTTCAAGAGGG 180
Db 1793 TTGAAGGCACTTTCAGACATTCAGAAAGCAGAGATGATCATATAGGAGCTTCAAGAGGG 1852
QY 181 AATTGAAAATTAAGAACTGTATATCATGACTCTTTGAGACTGTACGAATATTTCTGA 240
Db 1853 AATTGAAAATTAAGAACTGTATATCATGACTCTTTGAGACTGTACGAATATTTCTGA 1912
QY 241 CAGAGCAGCTTTGGAAGAGCTAGAGAACTTACCAAGAGCCCAAGAGAGCTGCTTCCTG 300
Db 1913 CAGAGCAGCTTTGGAAGAGCTAGAGAACTTACCAAGAGCCCAAGAGAGCTGCTTCCTG 1972
QY 301 AGGAGAGAGCCCAAGATGTCACTGGCTTCAAGAAAGCAGGCTGAGAGAGTCAATATCTG 360
Db 1973 AGGAGAGAGCCCAAGATGTCACTGGCTTCAAGAAAGCAGGCTGAGAGAGTCAATATCTG 2032
QY 361 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATATAGATGAGACCTTTG 420

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Qy 421 AAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGTGAACCTCAAGCTGCGCCCAAGCTG 480
Db 2093 AAAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGTGAACCTCAAGCTGCGCCCAAGCTG 2152
Qy 481 AGGTGATCAAGGAGATCTGGCAGCCCGTGGGCGATCTGCTCATTTGACTCTCTCCAAAGATC 540
Db 2153 AGGTGATCAAGGAGATCTGGCAGCCCGTGGGCGATCTGCTCATTTGACTCTCTCCAAAGATC 2212
Qy 541 ACCTCGAAGAAAGTCAAGGACCTTCGAGAGAAATTCGCGCTCTGAAAGAGAAAGTGAAGCC 600
Db 2213 ACCTCGAAGAAAGTCAAGGACCTTCGAGAGAAATTCGCGCTCTGAAAGAGAAAGTGAAGCC 2272
Qy 601 ACCTCAATGACCTTGTCTGCGCCAGCTTACCATTTGGGCAATTCAGCTCTCAACGTTAAAC 660
Db 2273 ACCTCAATGACCTTGTCTGCGCCAGCTTACCATTTGGGCAATTCAGCTCTCAACGTTAAAC 2332
Qy 661 TCAGACCTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGGTTGGCCGTGAGAGACC 720
Db 2333 TCAGACCTCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGGTTGGCCGTGAGAGACC 2392
Qy 721 GAGTCAGGCACTGCAATGAAAGCCCAAGGAACTTTGATCAAGCATCTGAGCACTTTCTTT 780
Db 2393 GAGTCAGGCACTGCAATGAAAGCCCAAGGAACTTTGATCAAGCATCTGAGCACTTTCTTT 2452
Qy 781 CCAGCTCTGTCAGAGGTCCTCTGGAGAGAGCCATTCGCGCAAAACAAGTCCCTACTATA 840
Db 2453 CCAGCTCTGTCAGAGGTCCTCTGGAGAGAGCCATTCGCGCAAAACAAGTCCCTACTATA 2512
Qy 841 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT 900
Db 2513 TCAACCAAGAGACTCAAAACAATTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGT 2572
Qy 901 CTTTACCTGACCTGAAATATGTCAGATTTCTCAGCTTATAGACTGCAAGAACTCCGAA 960
Db 2573 CTTTACCTGACCTGAAATATGTCAGATTTCTCAGCTTATAGACTGCAAGAACTCCGAA 2632
Qy 961 GACTGCAAGAGGCCCTTTGCTTGGATCTCTTGAAGCTGTCAGCTGCAATGTGATGCTTGG 1020
Db 2633 GACTGCAAGAGGCCCTTTGCTTGGATCTCTTGAAGCTGTCAGCTGCAATGTGATGCTTGG 2692
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Db 2693 ACCGACAACCTCAAGCAAAATGACAGCCCATGATATCCTGAGATTTATATTTGTT 2752
Qy 1081 TGACCACATTTATGACCGCCTGAGCAAGAGCAACAATTTGTCACAGCTCCCTCTCT 1140
Db 2753 TGACCACATTTATGACCGCCTGAGCAAGAGCAACAATTTGTCACAGCTCCCTCTCT 2812
Qy 1141 GCGTGATATGTGTCTGAATGCGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGA 1200
Db 2813 GCGTGATATGTGTCTGAATGCGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGA 2872
Qy 1201 TCCGTCCTGCTCTTTTAAACCTGSCATCATTTCCCTGCTGTAACACATTTGGAAGCA 1260
Db 2873 TCCGTCCTGCTCTTTTAAACCTGSCATCATTTCCCTGCTGTAACACATTTGGAAGCA 2932
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGTGACAGCCGAGGC 1320
Db 2933 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGTGACAGCCGAGGC 2992
Qy 1321 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCCAAGACAGTGGGTGAAGTTCATCT 1380
Db 2993 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCCAAGACAGTGGGTGAAGTTCATCT 3052
Qy 1381 TTGGGGGAGTAACATGAGCCAAAGTGTCCGGAGTGTCTCCAAATTTGCTATAATTAAGC 1440
Db 3053 TTGGGGGAGTAACATGAGCCAAAGTGTCCGGAGTGTCTCCAAATTTGCTATAATTAAGC 3112
Qy 1441 CAGAGATGGAAGCGGCTCTTCTTCTAGACTGATGAGACTGGAACCCGAGTCCATGCTGT 1500

Db 3113 CAGAGATGGAAGCGGCTCTTCTTCTAGACTGATGAGACTGGAACCCGAGTCCATGCTGT 3172
Qy 1501 G 1501
Db 3173 G 3173

RESULT 3
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DB1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 100.0%; Score 1501; DB 10; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAACATTAAGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGTGCACCTTTCTC 60
Db 2000 TCAACATTAAGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGTGCACCTTTCTC 2059
Qy 61 TGACGAAACTTCTGATGTGCTACAGCTGAAGATGATTAATTAAGCCGAGGACCTTA 120
Db 2060 TGACGAAACTTCTGATGTGCTACAGCTGAAGATGATTAATTAAGCCGAGGACCTTA 2119
Qy 121 TTGAAGCGCACTTTCACAGACTTCAAGAGCAAGACGATGATCATAGGCTTCAAGAGG 180
Db 2120 TTGAAGCGCACTTTCACAGACTTCAAGAGCAAGACGATGATCATAGGCTTCAAGAGG 2179
Qy 181 AATTGAATACTAAAGAACTCTGATATCATGATCTCTTGAGACGTGACGATATTTCTGA 240
Db 2180 AATTGAATACTAAAGAACTCTGATATCATGATCTCTTGAGACGTGACGATATTTCTGA 2239
Qy 241 CAGAGCAAGCTTTGGAAGGACTAGAGAAACTCTACAGAGCCGAGAGCTGCTCCTG 300
Db 2240 CAGAGCAAGCTTTGGAAGGACTAGAGAAACTCTACAGAGCCGAGAGCTGCTCCTG 2299
Qy 301 AGGAGAGGCCAGAAATGTCATCTGGCTTCTAGAAAGCAGGCTGAGAGGTCAATACTG 360
Db 2300 AGGAGAGGCCAGAAATGTCATCTGGCTTCTAGAAAGCAGGCTGAGAGGTCAATACTG 2359
Qy 361 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGCGCAGAGAAAAATGATAGACCTTGG 420
Db 2360 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGCGCAGAGAAAAATGATAGACCTTGG 2419
Qy 421 AAAGACTCCAGGAACCTTCAAGAGGCCACGATGAGTGAACCTCAAGCTGCGCCAAAGCTG 480
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Qy 481 AGGTGATCAAGGATCTGGGAGCCCGTGGGCGATCTCTCATTTGACTCTCTCAAGATC 540
Db 2480 AGGTGATCAAGGATCTGGGAGCCCGTGGGCGATCTCTCATTTGACTCTCTCAAGATC 2539
Qy 541 ACCTCGAAGAAAGTCAAGGACCTTCGAGAGAAATTTGGGCTCTGAAAGAGAAAGTGAAGCC 600
Db 2540 ACCTCGAAGAAAGTCAAGGACCTTCGAGAGAAATTTGGGCTCTGAAAGAGAAAGTGAAGCC 2599
Qy 601 ACCTCAATGACCTTGTCTGCGCCAGCTTACCATTTGGGCAATTCAGCTCTCAACGTTAAAC 660

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Db 2600 ACGTCAATGACCTGCTCGCAGCTTACCACTTTGGGCACTTCACCTGATTAAC 2659
Qy 661 TCAGACACTGGAAGACCTGGAACCAAGATGGAAGCTTCTGAGGTGGCCGCTGAGAGCC 720
Db 2660 TCAGACACTGGAAGACCTGGAACCAAGATGGAAGCTTCTGAGGTGGCCGCTGAGAGCC 7219
Qy 721 GAGTCAGGACGCTGATGAAAGCCACAGGACCTTGGTCCAGCATCTCAGCACTTCTT 780
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Qy 781 CCAGTCTGTCCAGGATCTCTGGAAGAGCCATCTGCGCAACAAAGTCCCTACTATA 840
Db 2780 CCAGTCTGTCCAGGATCTCTGGAAGAGCCATCTGCGCAACAAAGTCCCTACTATA 2839
Qy 841 TCAACCAAGAGACTCAACAACTTGTGAGACATCCCAAAATGACAGAGCTTACCACT 900
Db 2840 TCAACCAAGAGACTCAACAACTTGTGAGACATCCCAAAATGACAGAGCTTACCACT 2899
Qy 901 CTTTACGCTGACCTGATATATGTCAGATTCTCAGCTTATAGACTGCGCATGAAACTCCGA 960
Db 2900 CTTTACGCTGACCTGATATATGTCAGATTCTCAGCTTATAGACTGCGCATGAAACTCCGA 2959
Qy 961 GACTGCAAGAGGCCCTTGTGCTGATCTCTGAGCCTGTCACTGATGATGATGCTTGG 1020
Db 2960 GACTGCAAGAGGCCCTTGTGCTGATCTCTGAGCCTGTCACTGATGATGATGCTTGG 3019
Qy 1021 ACCAGACAACCTCAAGCAAAATGACCAAGCCATGATATCTGAGATTAATTAATTGT 1080
Db 3020 ACCAGACAACCTCAAGCAAAATGACCAAGCCATGATATCTGAGATTAATTAATTGT 3079
Qy 1081 TGACCACTTTATATGACCCGCTGAGAGAGAGACAACAATTGGTCAAAGTCCCTCT 1140
Db 3080 TGACCACTTTATATGACCCGCTGAGAGAGAGACAACAATTGGTCAAAGTCCCTCT 3139
Qy 1141 GCGTGAATATGTCTGAACCTGCTGATGATGATGATGATGATGATGATGATGATGAT 1200
Db 3140 GCGTGAATATGTCTGAACCTGCTGATGATGATGATGATGATGATGATGATGATGAT 3199
Qy 1201 TCCGTGCTCTCTTTTAAACTGCGATCATTTCCCTGTGTAAGACACATTTGGAAGCA 1260
Db 3200 TCCGTGCTCTCTTTTAAACTGCGATCATTTCCCTGTGTAAGACACATTTGGAAGCA 3259
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTGTAACAGAGGAGC 1320
Db 3260 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGAAATTTGTAACAGAGGAGC 3319
Qy 1321 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCAGAGACAGTTGGGTGAAGTGCATCT 1380
Db 3320 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCAGAGACAGTTGGGTGAAGTGCATCT 3379
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Db 3380 TTGGGGGAGATTAACCTGAGCAGATGTCGAGAGCTGTTCCAAATTTGCTAATTAAGC 3439
Qy 1441 CAGAGATGAAGCGGCTCTTCTTGAAGCTGATGAGACTGGAACCCCAAGTCCATGCTGT 1500
Db 3440 CAGAGATGAAGCGGCTCTTCTTGAAGCTGATGAGACTGGAACCCCAAGTCCATGCTGT 3499
Qy 1501 G 1501
Db 3500 G 3500

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RESULT 4
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DB1142

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; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match      100.0%; Score 1501; DB 10; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAACATTAAGGTCCCATTTTGAAGCCAGTCTGACCAAGTGAAGCCCTTCACCTTCTC 60
Db 2141 TCAACATTAAGTCCCATTTTGAAGCCAGTCTGACCAAGTGAAGCCCTTCACCTTCTC 2200
Qy 61 TGCAGAACTTGTGTGCTCAAGCTGAAAGATGATTAAGCCGCAAGCACTTA 120
Db 2201 TGCAGAACTTGTGTGCTCAAGCTGAAAGATGATTAAGCCGCAAGCACTTA 2260
Qy 121 TTGAGGCGACTTTCAGCAGCTTCAAGAGAGAAACGATGATCAATAGGCTTCAAGAGG 180
Db 2261 TTGAGGCGACTTTCAGCAGCTTCAAGAGAGAAACGATGATCAATAGGCTTCAAGAGG 2320
Qy 181 AATTGAAACTTAAAGAACTGTATCATGATGATCTCTGAGACTGTACGAATATTCTGA 240
Db 2321 AATTGAAACTTAAAGAACTGTATCATGATGATCTCTGAGACTGTACGAATATTCTGA 2380
Qy 241 CAGAGCAGCTTTGGAAGAGCTAGAGAACTTACCAAGAGCCCAAGAGCTGCTCTG 300
Db 2381 CAGAGCAGCTTTGGAAGAGCTAGAGAACTTACCAAGAGCCCAAGAGCTGCTCTG 2440
Qy 301 AGGAGAGAGCCCAAGATGTCATCTGCTTCTACGAAGAGAGCTGAGAGCTCAATACG 360
Db 2441 AGGAGAGAGCCCAAGATGTCATCTGCTTCTACGAAGAGAGCTGAGAGCTCAATACG 2500
Qy 361 AGTGGAAAAATTTGAACCTGCACTCGCTGACCTGCGCAGAGAAAAATGATGAGACCTTG 420
Db 2501 AGTGGAAAAATTTGAACCTGCACTCGCTGACCTGCGCAGAGAAAAATGATGAGACCTTG 2560
Qy 421 AAAGCTCAGAGAACTTCAAGAGGCCACGAGATGATGAGACCTCAAGCTGCGCCAAAGCTG 480
Db 2561 AAAGCTCAGAGAACTTCAAGAGGCCACGAGATGATGAGACCTCAAGCTGCGCCAAAGCTG 2620
Qy 481 AGTGAATCAAGGATCTGCGAGCCCGTGGGAGATCTCTCATTTGATCTCTCAAGATC 540
Db 2621 AGTGAATCAAGGATCTGCGAGCCCGTGGGAGATCTCTCATTTGATCTCTCAAGATC 2680
Qy 541 ACTCGAGAAATCAAGGACTTGAAGAGAAATTTGGCCCTTGAAAGAAAGTGAAGC 600
Db 2681 ACTCGAGAAATCAAGGACTTGAAGAGAAATTTGGCCCTTGAAAGAAAGTGAAGC 2740
Qy 601 ACCTGAATGACCTTCTGCGCAGCTTACCACTTGGGATTCAGCTCTCAAGTATAAC 660
Db 2741 ACCTGAATGACCTTCTGCGCAGCTTACCACTTGGGATTCAGCTCTCAAGTATAAC 2800
Qy 661 TCAGCACTTGGAAACCTGGAACCAACCAATGAAAGCTTTCAGAGTGGCCGTGAGAGAC 720
Db 2801 TCAGCACTTGGAAACCTGGAACCAACCAATGAAAGCTTTCAGAGTGGCCGTGAGAGAC 2860
Qy 721 GAGTCAGGACGCTGATGAAAGCCCAAGGAGACTTGGTCCAGCATCTCAGCACTTCTT 780
Db 2861 GAGTCAGGACGCTGATGAAAGCCCAAGGAGACTTGGTCCAGCATCTCAGCACTTCTT 2920
Qy 781 CCAAGTCTGTCCAGGCTCTCTGGAAGAGAGCCATCTGCCCAACAAAGTCCCTACTATA 840
Db 2921 CCAAGTCTGTCCAGGCTCTCTGGAAGAGAGCCATCTGCCCAACAAAGTCCCTACTATA 2980
Qy 841 TCAACCAAGAGACTCAACAACTTGTGAGACATCCCAAAATGACAGAGCTTACCACT 900

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Db      2981  TCAACCAAGAGCTCAAAACAATTGCTGGAGCATCCCAAAATGACAGAGCTCAACAGT 3040
Qy      901  CTTTATGCTGACCTGATATATATGTCATATCTCATATATGATCTCCCATGAAATCTCCAA 960
Db      3041  CTTTATGCTGACCTGATATATATGTCATATCTCATATATGATCTCCCATGAAATCTCCAA 3100
Qy      961  GACTGCAAGAGGCTCTTGGCTTGATATCTTGTAGCTGCTGACCTGATATGATGCTCTGG 1020
Db      3101  GACTGCAAGAGGCTCTTGGCTTGATATCTTGTAGCTGCTGACCTGATATGATGCTCTGG 3160
Qy      1021  ACCAGCAACACCTCAAGCAAAATGACCAAGCCCATGATATCTTGCAGATTTAATTTGTT 1080
Db      3161  ACCAGCAACACCTCAAGCAAAATGACCAAGCCCATGATATCTTGCAGATTTAATTTGTT 3220
Qy      1081  TGACCACTATTTATATACCGGCTGAGAGCAAGACACAACTTTGGTCAACGCTCTCTCT 1140
Db      3221  TGACCACTATTTATATACCGGCTGAGAGCAAGACACAACTTTGGTCAACGCTCTCTCT 3280
Qy      1141  GCGTGAATATGTCATGAACTGGCTGATGTTATGATACGGGACGAAACAGGAGGA 1200
Db      3281  GCGTGAATATGTCATGAACTGGCTGATGTTATGATACGGGACGAAACAGGAGGA 3340
Qy      1201  TCCGTGCTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTTGAAAGCA 1260
Db      3341  TCCGTGCTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAGCACATTTGAAAGCA 3400
Qy      1261  AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCGCCAGGC 1320
Db      3401  AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTGTGACCGCCAGGC 3460
Qy      1321  TGGGCTCTCTCTGATGATTTCTATCCAAATCCAAAGACAGTTGGGTGAAGTGCATCT 1380
Db      3461  TGGGCTCTCTCTGATGATTTCTATCCAAATCCAAAGACAGTTGGGTGAAGTGCATCT 3520
Qy      1381  TTGGGGGAGATACATTTAGCCAGGATGTCGGAGCTGCTTCCAAATTTGTAATTAAGC 1440
Db      3521  TTGGGGGAGATACATTTAGCCAGGATGTCGGAGCTGCTTCCAAATTTGTAATTAAGC 3580
Qy      1441  CAGAGATGAAAGGCGGCTCTTCTCAAGACTGATGAGATGAGACCCCATGATGAGTGT 1500
Db      3581  CAGAGATGAAAGGCGGCTCTTCTCAAGACTGATGAGATGAGACCCCATGATGAGTGT 3640
Qy      1501  G 1501
Db      3641  G 3641

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RESULT 5
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

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Query Match      100.0%; Score 1501; DB 10; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1  TCAACATTAGATCCCATTTTGAAGCCAGATTTGACCACTGAGAGGCTGTGACCTTTCTC 60
Db      2324  TCAACATTAGATCCCATTTTGAAGCCAGATTTGACCACTGAGAGGCTGTGACCTTTCTC 2383
Qy      61  TGCAGGAACCTTCTGTGTGCTGCTACAGCTGAAAGATGAAATTAAAGCCGCGACGCTTA 120
Db      2384  TGCAGGAACCTTCTGTGTGCTGCTACAGCTGAAAGATGAAATTAAAGCCGCGACGCTTA 2443
Qy      121  TTGAGGCGACCTTTCACAGCTTCAAGAGCAAGAACGATGTCATATGGGCTTTCAAGAGG 180
Db      2444  TTGAGGCGACCTTTCACAGCTTCAAGAGCAAGAACGATGTCATATGGGCTTTCAAGAGG 2503
Qy      181  AATTGAAATCTTAAAGAACCTGTAATCATAGTACTCTTGAAGCTGTAAGAAATTTCTGA 240
Db      2504  AATTGAAATCTTAAAGAACCTGTAATCATAGTACTCTTGAAGCTGTAAGAAATTTCTGA 2563
Qy      241  CAGAGCAGCTTTTGAAGAGCTTAAAGAAATCTTACAGAGACCCAGAGAGCTGCTCTCTG 300
Db      2564  CAGAGCAGCTTTTGAAGAGCTTAAAGAAATCTTACAGAGACCCAGAGAGCTGCTCTCTG 2623
Qy      301  AGGAGAGGCCAGAAATGTCATGCGGCTTCTACGAAAGCAGGCTGAGAGGTCATACTG 360
Db      2624  AGGAGAGGCCAGAAATGTCATGCGGCTTCTACGAAAGCAGGCTGAGAGGTCATACTG 2683
Qy      361  AGTGGGAAATTTGAACTTGCATCTCCGCTGACTGGCAGAGAGAAATATAGATGAGACCTTG 420
Db      2684  AGTGGGAAATTTGAACTTGCATCTCCGCTGACTGGCAGAGAGAAATATAGATGAGACCTTG 2743
Qy      421  AAAGCTCCAGAAATCTTCAAGAGCCAGATGATGATGATGATGATGATGATGATGATGATG 480
Db      2744  AAAGCTCCAGAAATCTTCAAGAGCCAGATGATGATGATGATGATGATGATGATGATGATG 2803
Qy      481  AGGTGATCAAGAGATCCCTGGAGCCCGGCGGATCTCTCATGATGATGATGATGATGATG 540
Db      2804  AGGTGATCAAGAGATCCCTGGAGCCCGGCGGATCTCTCATGATGATGATGATGATGATG 2863
Qy      541  ACTTCGAGAAAGTCAAGGACTTTCGAGAGAGAAATTCGCTCTGTAAGAGAGAGAGAGAGC 600
Db      2864  ACTTCGAGAAAGTCAAGGACTTTCGAGAGAGAAATTCGCTCTGTAAGAGAGAGAGAGAGC 2923
Qy      601  AGCTCATGACCTTGTGCTGCGACGCTTACCACTTTGGGATTCAGCTCTCACCGTATTAAC 660
Db      2924  AGCTCATGACCTTGTGCTGCGACGCTTACCACTTTGGGATTCAGCTCTCACCGTATTAAC 2983
Qy      661  TCAGACCTCTGGAAGACCTTGAACCAAGAGTCTTCTGAGAGTCTTCTGAGACCTTTCTT 720
Db      2984  TCAGACCTCTGGAAGACCTTGAACCAAGAGTCTTCTGAGAGTCTTCTGAGACCTTTCTT 3043
Qy      721  GAGTCAGGACCTGATGAGACCCACAGAGACTTTGGTCCAGCATCTTCTGAGACCTTTCTT 780
Db      3044  GAGTCAGGACCTGATGAGACCCACAGAGACTTTGGTCCAGCATCTTCTGAGACCTTTCTT 3103
Qy      781  CCAGCTCTGTCAGAGGTCCTGGAAGAGAGCCATCTGCGCAACAAAGTGCCTTACTATA 840
Db      3104  CCAGCTCTGTCAGAGGTCCTGGAAGAGAGCCATCTGCGCAACAAAGTGCCTTACTATA 3163
Qy      841  TCAACCAAGAGATCTTCAACCACTTGTGGAAGCATCTCCAAATATGAGAGGCTTACAGCT 900
Db      3164  TCAACCAAGAGATCTTCAACCACTTGTGGAAGCATCTCCAAATATGAGAGGCTTACAGCT 3223
Qy      901  CTTTATGCTGACCTGATATATATGTCATATCTCATATATGATCTCCCATGAAATCTCCAA 960
Db      3224  CTTTATGCTGACCTGATATATATGTCATATCTCATATATGATCTCCCATGAAATCTCCAA 3283
Qy      961  GACTGCAAGAGGCTCTTGGCTTGATATCTTGTAGCTGCTGACCTGATATGATGCTCTGG 1020
Db      3284  GACTGCAAGAGGCTCTTGGCTTGATATCTTGTAGCTGCTGACCTGATATGATGCTCTGG 3343
Qy      1021  ACCAGCAACACCTCAAGCAAAATGACCAAGCCCATGATATCTTGCAGATTTAATTTGTT 1080
Db      3344  ACCAGCAACACCTCAAGCAAAATGACCAAGCCCATGATATCTTGCAGATTTAATTTGTT 3403
Qy      1081  TGACCACTATTTATATACCGGCTGAGAGCAAGACCAACTTTGGTCAACGCTCTCTCT 1140

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Db 3404 TGACCACTATTATGACCGCTGGAGCAAGCAACAATTGGTAAAGTCCCTCTCT 3463
Qy 1141 GCGGATATGTGTCTGTAACCTGGCTGTGATGTTTATGATACGGGACGAACGGAGGA 1200
Db 3464 GCGGTATATGTGTCTGTAACCTGGCTGTGATGTTTATGATACGGGACGAACGGAGGA 3523
Qy 1201 TCCGTGTCTGTCTTTTAAACTGGCATCTTCCGTGTAAAGCAATTGGAGACA 1260
Db 3524 TCCGTGTCTGTCTTTTAAACTGGCATCTTCCGTGTAAAGCAATTGGAGACA 3583
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAACAGATTTTGTGAACAGCGAGGC 1320
Db 3584 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAAACAGATTTTGTGAACAGCGAGGC 3643
Qy 1321 TGGGCTCTCTTCTGATGATTTTATCCAAATTCAGAGACAGTTGGGTGAAGTTGATCCT 1380
Db 3644 TGGGCTCTCTTCTGATGATTTTATCCAAATTCAGAGACAGTTGGGTGAAGTTGATCCT 3703
Qy 1381 TTGGGGGCAATTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATAAAGC 1440
Db 3704 TTGGGGGCAATTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTAATAAAGC 3763
Qy 1441 CAGAGATCGAAGGGGCTCTTCTGATGATGATGATGATGATGATGATGATGATGATGAT 1500
Db 3764 CAGAGATCGAAGGGGCTCTTCTGATGATGATGATGATGATGATGATGATGATGATGAT 3823
Qy 1501 G 1501
Db 3824 G 3824

RESULT 6
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patencin Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 100.0%; Score 1501; DB 10; Length 4498;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCACATTAGGTCCCATTTGGAAACCAAGTTCTGACAGTGGAAAGCGTCTGACCTTTCTC 60
Db 2430 TCACATTAGGTCCCATTTGGAAACCAAGTTCTGACAGTGGAAAGCGTCTGACCTTTCTC 2489
Qy 61 TGCAGGAATCTTGTGTGTGCTACAGCTGAAGAGTGAATTAAGCCGCGACAGCACTTA 120
Db 2490 TGCAGGAATCTTGTGTGTGCTACAGCTGAAGAGTGAATTAAGCCGCGACAGCACTTA 2549
Qy 121 TTGAGAGCGACTTTTCCAGAGTTCAAGAGCAAGATGATACATAGGCGCTTCAAGAGG 180
Db 2550 TTGAGAGCGACTTTTCCAGAGTTCAAGAGCAAGATGATACATAGGCGCTTCAAGAGG 2609
Qy 181 AATTGAAACTTAAGAACTGTATCATGTACTCTTTGAGACTGTACGAATATTTCTGA 240
Db 2610 AATTGAAACTTAAGAACTGTATCATGTACTCTTTGAGACTGTACGAATATTTCTGA 2669

Qy 241 CAGACAGCTTTTGGAAAGACTAAGAACTCTACCAAGAGCCCAAGAGCTGCTCTG 300
Db 2670 CAGACAGCTTTTGGAAAGACTAAGAACTCTACCAAGAGCCCAAGAGCTGCTCTG 2729
Qy 301 AGGAGAGGCCCAAGATGTCACTGGCTTCTACGAAAGCAGGCTGAGAGGTCAATCTG 360
Db 2730 AGGAGAGGCCCAAGATGTCACTGGCTTCTACGAAAGCAGGCTGAGAGGTCAATCTG 2789
Qy 361 AGTGGAAAAATTGAACCTGTGACTCCGTGACTGGCAGAGAAAAATGATAGACCTTG 420
Db 2790 AGTGGAAAAATTGAACCTGTGACTCCGTGACTGGCAGAGAAAAATGATAGACCTTG 2849
Qy 421 AAAAGCTCCAGAACTTCAAGAGCCACAGATGAGCTGACCTCAAGCTGCGCAAGCTG 480
Db 2850 AAAAGCTCCAGAACTTCAAGAGCCACAGATGAGCTGACCTCAAGCTGCGCAAGCTG 2809
Qy 481 AGGTATCAAGGAGTCTGCGAGCCGCTGGGCGATCTCATTTGATCTCTCCAGATC 540
Db 2910 AGGTATCAAGGAGTCTGCGAGCCGCTGGGCGATCTCTCATTTGATCTCTCCAGATC 2969
Qy 541 ACTCGAAGAAATCAAGGCACTTCAAGAGAAAAATGCGCTTGAAGAGAGAGAGTGAACC 600
Db 2970 ACTCGAAGAAATCAAGGCACTTCAAGAGAAAAATGCGCTTGAAGAGAGAGTGAACC 3029
Qy 601 ACCTCAATGACCTTGTCTGCGAGCTTACCACTTTGGGCACTTCAAGCTTCAAGCTTAAC 660
Db 3030 ACCTCAATGACCTTGTCTGCGAGCTTACCACTTTGGGCACTTCAAGCTTCAAGCTTAAC 3089
Qy 661 TCAGACTCTGGAAGACCTTGAACCAAGATGAAAGCTTGTGACAGTGGCCGTGAGGACC 720
Db 3090 TCAGACTCTGGAAGACCTTGAACCAAGATGAAAGCTTGTGACAGTGGCCGTGAGGACC 3149
Qy 721 GAGTCAGGAGCTGCAATGAAAGCCCAAGGACCTTGTGACAGATCTCAGACCTTTCTT 780
Db 3150 GAGTCAGGAGCTGCAATGAAAGCCCAAGGACCTTGTGACAGATCTCAGACCTTTCTT 3209
Qy 781 CCAAGTCTGTCCAGGCTCCCTGGAGAGAGCCATCTGCGCAAAACAAAGGCGCTACTATA 840
Db 3210 CCAAGTCTGTCCAGGCTCCCTGGAGAGAGCCATCTGCGCAAAACAAAGGCGCTACTATA 3269
Qy 841 TCACCAACGAGATCAAAACAATTGCTGAGAACCATCCAAATGACAGAGCTCTACAGT 900
Db 3270 TCACCAACGAGATCAAAACAATTGCTGAGAACCATCCAAATGACAGAGCTCTACAGT 3329
Qy 901 CTTTACCTGACCTGAATATGTCAATCTCAAGCTTATGAGCTGCAAGTGAAGTCCGAA 960
Db 3330 CTTTACCTGACCTGAATATGTCAATCTCAAGCTTATGAGCTGCAAGTGAAGTCCGAA 3389
Qy 961 GACTGCAAGAGCCCTTTGCTTGAATCTTGAAGCTGTCAAGCTGATGATGATGATGATGAT 1020
Db 3390 GACTGCAAGAGCCCTTTGCTTGAATCTTGAAGCTGTCAAGCTGATGATGATGATGATGAT 3449
Qy 1021 ACCAGACAACTTCAAGCAAAATGACCAAGCCATGATATCTGCAATTAATTAATGTT 1080
Db 3450 ACCAGACAACTTCAAGCAAAATGACCAAGCCATGATATCTGCAATTAATTAATGTT 3509
Qy 1081 TGAACACTTTATGACCGCTGAGCAAGAGCAACAATTGTGTCAAGCGCCCTCTCT 1140
Db 3510 TGAACACTTTATGACCGCTGAGCAAGAGCAACAATTGTGTCAAGCGCCCTCTCTCT 3569
Qy 1141 GCGGTATATGTGTCTGAACTGGCTGTGAATGTTATGATACGGAGCAACAGGAGGA 1200
Db 3570 GCGGTATATGTGTCTGAACTGGCTGTGAATGTTATGATACGGAGCAACAGGAGGA 3629
Qy 1201 TCCGTGTCTGTCTTTTAAACTGGCAATTTCCCTGTGAAAGCAATTTGGAAGCA 1260
Db 3630 TCCGTGTCTGTCTTTTAAACTGGCAATTTCCCTGTGAAAGCAATTTGGAAGCA 3689
Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTTGTGAACAGGAGGC 1320
Db 3690 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGAACAGGAGGC 3749
Qy 1321 TGGGCTCTCTTCTGATGATTTCTATCCAAATTCAGAGACGTTGGGTGAAGTGCATCT 1380

Db 3750 TGGGCTCTCTCTGATGATTCATCCAAATTCAGACAGTTGGGTGAAGTTCATCCT 3809
 Qy 1381 TTGGGGGAGTAACATTGAGCAAGTGTCCGAGCTGCTCCAAATTCCTAATATTAAGC 1440
 Db 3810 TTGGGGGAGTAACATTGAGCAAGTGTCCGAGCTGCTCCAAATTCCTAATATTAAGC 3869
 Qy 1441 CAGAGATGAGAGCGGCT 1500
 Db 3870 CAGAGATGAGAGCGGCT 3929
 Qy 1501 G 1501
 Db 3930 G 3930

RESULT 7
 US-09-845-416-29
 ; Sequence 29, Application US/09845416
 ; Publication No. US2003017312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; FILE REFERENCE: DE1142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; PRIOR FILING DATE: 2000-04-28
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 29
 ; LENGTH: 4825
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-845-416-29

Query Match 100.0%; Score 1501; DB 10; Length 4825;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 TCAACATTAGTCCATTGGAAGCCAGTTCGACCAAGTGAAGCGTCTGCACTTTCTC 60
 Db 2757 TCAACATTAGTCCATTGGAAGCCAGTTCGACCAAGTGAAGCGTCTGCACTTTCTC 2816
 Qy 61 TGCAGAACTTCTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGCGACGACCTA 120
 Db 2817 TGCAGAACTTCTGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGCGACGACCTA 2876
 Qy 121 TTGAGGAGGACCTTCCAGCAGTTGAGAGCAAGATGATCATAGGGGCTTCAAGAGG 180
 Db 2877 TTGAGGAGGACCTTCCAGCAGTTGAGAGCAAGATGATCATAGGGGCTTCAAGAGG 2936
 Qy 181 AATTGAAATTAAGAACCTGTAATCATGATGACTCTTGAGACTGTAAGATATTTCTGA 240
 Db 2937 AATTGAAATTAAGAACCTGTAATCATGATGACTCTTGAGACTGTAAGATATTTCTGA 2996
 Qy 241 CAGAGCAGCTTTGAGAGGACTAGAGAACTTACAGAGGCGCAGAGCTGCTCTCTG 300
 Db 2997 CAGAGCAGCTTTGAGAGGACTAGAGAACTTACAGAGGCGCAGAGCTGCTCTCTG 3056
 Qy 301 AGGAGAGGCCCAAGATGCTAGCTGGCTTCTACGAAACAGGCTGAGAGGCTCAATACG 360
 Db 3057 AGGAGAGGCCCAAGATGCTAGCTGGCTTCTACGAAACAGGCTGAGAGGCTCAATACG 3116
 Qy 361 AGTGGGAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTG 420
 Db 3117 AGTGGGAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTG 3176
 Qy 421 AAAGACTCCAGGAATTTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTGCCCAAGCTG 480
 Db 3177 AAAGACTCCAGGAATTTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTGCCCAAGCTG 3236

Qy 481 AGGTGATCAAGGATCTCTGAGAGCCGCTGGCGATCTCTCATTTGATCTCTCCAAATC 540
 Db 3237 AGGTGATCAAGGATCTCTGAGAGCCGCTGGCGATCTCTCATTTGATCTCTCCAAATC 3296
 Qy 541 ACCTGAGAAAAGTCAAGGACTTTGAGAGGAAATTTGGCTCTGTAAGAGAACGAGACC 600
 Db 3297 ACCTGAGAAAAGTCAAGGACTTTGAGAGGAAATTTGGCTCTGTAAGAGAACGAGACC 3356
 Qy 601 AGGTCAATGACCTTGTGCTGCGCAGCTTACCACTTTGGGATTCAGCTCAGCTTAAC 660
 Db 3357 AGGTCAATGACCTTGTGCTGCGCAGCTTACCACTTTGGGATTCAGCTCAGCTTAAC 3416
 Qy 661 TCAGCACTCTGGAAGACCTGAACACAGATGAAAGCTTCTGAGGTGCGCTGAGAGC 720
 Db 3417 TCAGCACTCTGGAAGACCTGAACACAGATGAAAGCTTCTGAGGTGCGCTGAGAGC 3476
 Qy 721 GAGTCAGGACGCTGATTAAGCCACAGAGGACTTTGGTTCAGCATCTCAGCATTTCTT 780
 Db 3477 GAGTCAGGACGCTGATTAAGCCACAGAGGACTTTGGTTCAGCATCTCAGCATTTCTT 3536
 Qy 781 CCAAGCTGTCCAGGCTCCTGGGAGAGGACATCTGSCAAACAAAGTGCCTACTATA 840
 Db 3537 CCAAGCTGTCCAGGCTCCTGGGAGAGGACATCTGSCAAACAAAGTGCCTACTATA 3596
 Qy 841 TCAACCAAGACCTCAAACTTGTCTGAGCAATCCCAAAATGACAGAGCTTACAGT 900
 Db 3597 TCAACCAAGACCTCAAACTTGTCTGAGCAATCCCAAAATGACAGAGCTTACAGT 3656
 Qy 901 CTTTAGCTGACCTGATTAATGATCAGATTTCTCAGCTTATAGACTGCAATGAATCTCG 960
 Db 3657 CTTTAGCTGACCTGATTAATGATCAGATTTCTCAGCTTATAGACTGCAATGAATCTCG 3716
 Qy 961 GACTGCAAGAGCCCTTTGCTTGTGATCTCTGAGCTGCTGAGCTGCAATGATGCTTGG 1020
 Db 3717 GACTGCAAGAGCCCTTTGCTTGTGATCTCTGAGCTGCTGAGCTGCAATGATGCTTGG 3776
 Qy 1021 ACCAGCAACACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTAATTTGTT 1080
 Db 3777 ACCAGCAACACCTCAAGCAAAATGACAGCCCATGATATCTGAGATTAATTTGTT 3836
 Qy 1081 TGACCACTATTTATGACCGCTGAGAGCAAGACACAAATTTGGTCAAGTCTCTCT 1140
 Db 3837 TGACCACTATTTATGACCGCTGAGAGCAAGACACAAATTTGGTCAAGTCTCTCT 3896
 Qy 1141 GCGTGAATATGCTGAACTGGCTGCTGAANTGTTATGATACGAGGAGAAACAGGAGGA 1200
 Db 3897 GCGTGAATATGCTGAACTGGCTGCTGAANTGTTATGATACGAGGAGAAACAGGAGGA 3956
 Qy 1201 TCCGTGCTCTCTTTTAAACCTGATCATTTCCCTGTGTAAGCACTTTGGAAGACA 1260
 Db 3957 TCCGTGCTCTCTTTTAAACCTGATCATTTCCCTGTGTAAGCACTTTGGAAGACA 4016
 Qy 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTACAGCCAGG 1320
 Db 4017 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTACAGCCAGG 4076
 Qy 1321 TGGGCTCCTTCTGATGATATCTAATCCAAATTCAGAGCAAGTGGGTAAGTGTGACT 1380
 Db 4077 TGGGCTCCTTCTGATGATATCTAATCCAAATTCAGAGCAAGTGGGTAAGTGTGACT 4136
 Qy 1381 TTGGGGGAGTAACATTGAGCAAGTGTCCGAGCTGCTCCAAATTTCTAATAATAAGC 1440
 Db 4137 TTGGGGGAGTAACATTGAGCAAGTGTCCGAGCTGCTCCAAATTTCTAATAATAAGC 4196
 Qy 1441 CAGAGATGAAAGCGGCTCTTCTCTAGACTGATGAGACTGAAACCCAGTCCATGTGT 1500
 Db 4197 CAGAGATGAAAGCGGCTCTTCTCTAGACTGATGAGACTGAAACCCAGTCCATGTGT 4256
 Qy 1501 G 1501
 Db 4257 G 4257

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RESULT 8
US-09-845-416-35
: Sequence 35, Application US/09845416
: Publication No. US20030171312A1
: GENERAL INFORMATION:
: APPLICANT: XIAO, XIAO
: TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
: TITLE OF INVENTION: THEREOF
: FILE REFERENCE: DEL142
: CURRENT APPLICATION NUMBER: US/09/845,416
: CURRENT FILING DATE: 2001-04-30
: PRIOR APPLICATION NUMBER: 60/200,777
: PRIOR FILING DATE: 2000-04-28
: NUMBER OF SEQ ID NOS: 36
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 35
: LENGTH: 4848
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-845-416-35

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Query Match	100.0%;	Score 1501;	DB 10;	Length 4848;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	TCACATTAGGTCCATTGGAAAGCACTTCGACCACTGGAAAGGCTGTGACCTTTTCTC	60
Db	2780	TCACATTAGGTCCATTGGAAAGCACTTCGACCACTGGAAAGGCTGTGACCTTTTCTC	2839
QY	61	TGCAGGAATTCTGTGTGTGGCTACAGCTGAAAGATGATGAATTAAAGCCGACGACCTA	120
Db	2840	TGCAGGAATTCTGTGTGTGGCTACAGCTGAAAGATGATGAATTAAAGCCGACGACCTA	2899
QY	121	TTGAGGGGCACTTTCACGACGTTGAGAAAGCAAGAAAGTACATAGGGCTTCAAGAGGG	180
Db	2900	TTGAGGGGCACTTTCACGACGTTGAGAAAGCAAGAAAGTACATAGGGCTTCAAGAGGG	2955
QY	181	AATTGAAACTAAAGAACTGTGTAATCATAGTACTCTTGAGACTGTAGAAATATTTCTGA	240
Db	2960	AATTGAAACTAAAGAACTGTGTAATCATAGTACTCTTGAGACTGTAGAAATATTTCTGA	3019
QY	241	CAGAGCAAGCTTTGGAAAGCACTAAGAAACTCTACAGAGACCAGAGAGCTGCTCTCTG	300
Db	3020	CAGAGCAAGCTTTGGAAAGCACTAAGAAACTCTACAGAGACCAGAGAGCTGCTCTCTG	3079
QY	301	AGGAGAGAGCCAGCAATGTCACTCGGCTTCTACAAAGCAGCTGAGGAGGTCAATACTG	360
Db	3080	AGGAGAGAGCCAGCAATGTCACTCGGCTTCTACAAAGCAGCTGAGGAGGTCAATACTG	3139
QY	361	AGTGGGAAAAATTGAACCTGTGACTCCGCTGACTGGCAGAAAAATGATGAGACCTTG	420
Db	3140	AGTGGGAAAAATTGAACCTGTGACTCCGCTGACTGGCAGAAAAATGATGAGACCTTG	3199
QY	421	AAAAGACTCGAGGAATTCAAGAGGCCACGATGAGCTGAGACCTCAAGCTGGCCAAAGCTG	480
Db	3200	AAAAGACTCGAGGAATTCAAGAGGCCACGATGAGCTGAGACCTCAAGCTGGCCAAAGCTG	3259
QY	481	AGGTGATCAAGGGATCTCTGGCAGCCGCTGGGCCATCTCTTATTGACTCTTCCAAATTC	540
Db	3260	AGGTGATCAAGGGATCTCTGGCAGCCGCTGGGCCATCTCTTATTGACTCTTCCAAATTC	3319
QY	541	ACCTCGAGAAAGTCMAAGCACTTTCGAGAGAAATTGGCCCTCTGAAGAAAGAACGTGAGCC	600
Db	3320	ACCTCGAGAAAGTCMAAGCACTTTCGAGAGAAATTGGCCCTCTGAAGAAAGAACGTGAGCC	3379
QY	601	ACGTCAATGACTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAAGCTTCAACGTAATAAC	660
Db	3380	ACGTCAATGACTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAACGCTGTAATAAC	3439
QY	661	TCAGCACTCTGAGAAAGCTGAAACACAGATGAAAGCTTTCGACAGTGGCCGTGAGAGACC	720
Db	3440	TCAGCACTCTGAGAAAGCTGAAACACAGATGAAAGCTTTCGACAGTGGCCGTGAGAGACC	3499

QY	721	AGTGAAGCAGCTGCATGAAGCCACAGAGGACTTTGGTCCAGGATCTCAGACATTTCTT	780
Db	3500	GAGTGAAGCAGCTGCATGAAGCCACAGAGGACTTTGGTCCAGGATCTCAGACATTTCTT	35585
QY	781	CCACGCTGTCCAGGGCTCCTGGAGAGAGGCATCTCGCCAAACAAAGTGCCTACTATA	840
Db	3560	CCACGCTGTCCAGGGCTCCTGGAGAGAGGCATCTCGCCAAACAAAGTGCCTACTATA	3619
QY	841	TCAACCAAGAACTCAACCACTTGCTGGGACATCCCAAAATGACAGACTTACCACT	900
Db	3620	TCAACCAAGAACTCAACCACTTGCTGGGACATCCCAAAATGACAGACTTACCACT	3679
QY	901	CTTTAGCTGACCTGAAATATGTCTCAGATTTCTCAGCTTATAGGACTGCCATGCCAA	960
Db	3680	CTTTAGCTGACCTGAAATATGTCTCAGATTTCTCAGCTTATAGGACTGCCATGCCAA	3739
QY	961	GACTGCAGAGAGCCCTTGTGCTTGAATCTCTTGACCTGTGCAGTGTGATGCTTTGG	1020
Db	3740	GACTGCAGAGAGCCCTTGTGCTTGAATCTCTTGACCTGTGCAGTGTGATGCTTTGG	3799
QY	1021	ACCGACCAACCTCAAGAAATATACAGGCCATGAGATTCCTGCAATTAATTGTT	1080
Db	3800	ACCGACCAACCTCAAGAAATATACAGGCCATGAGATTCCTGCAATTAATTGTT	3859
QY	1081	TGACCACATTTATGACCGCTCGAGCAAGAGCACAAAATTTGGTCAACGCTCCTCT	1140
Db	3860	TGACCACATTTATGACCGCTCGAGCAAGAGCACAAAATTTGGTCAACGCTCCTCT	3919
QY	1141	GCGTGATATGTGTCTGAACCTGGCTCTGAAATGTTTATGATACGGACGAAACAGGAGGA	1200
Db	3920	GCGTGATATGTGTCTGAACCTGGCTCTGAAATGTTTATGATACGGACGAAACAGGAGGA	3979
QY	1201	TCCGATGCTGTCTTTTAAACCTGGACATCAATTCCTCGTGAAGGCACTTTGGAACACA	1260
Db	3980	TCCGATGCTGTCTTTTAAACCTGGACATCAATTCCTCGTGAAGGCACTTTGGAACACA	4039
QY	1261	AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGACCAAGCGCAGGC	1320
Db	4040	AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGATTTTGTGACCAAGCGCAGGC	4099
QY	1321	TGGGCTTCCTTCTGCATGATTTCTATCCAAATTCGAAGCAAGTTGGGTGAAGTTGCATCCT	1380
Db	4100	TGGGCTTCCTTCTGCATGATTTCTATCCAAATTCGAAGCAAGTTGGGTGAAGTTGCATCCT	4159
QY	1381	TTGGGGGCAAGTAACATTGAGGCAAGGTCCGAGACTCTTCCAAATTTGTCTAATAATAGC	1440
Db	4160	TTGGGGGCAAGTAACATTGAGGCAAGGTCCGAGACTCTTCCAAATTTGTCTAATAATAGC	4219
QY	1441	CAGAGATCGAAGCGGCTCTTCTCTAGACTGAGTGAAGCTTGAACCCCAAGTCCATGGTGT	1500
Db	4220	CAGAGATCGAAGCGGCTCTTCTCTAGACTGAGTGAAGCTTGAACCCCAAGTCCATGGTGT	4279
QY	1501	G 1501	
Db	4280	G 4280	

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RESULT 9
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEROOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 28

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LENGTH: 4966
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1501; DB 10; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 TCAACATTAGGTCCTTGGAGGCACTTTCGACCAATGGAAGGCTTGCACTTTCTC 60
2998 TCAACATTAGGTCCTTGGAGGCACTTTCGACCAATGGAAGGCTTGCACTTTCTC 2957
61 TGACGAAGACTCTGGTGTGCTACAGCTGAAAGATGAAATTAAGCGGAGCACTTA 120
2958 TGACGAAGACTCTGGTGTGCTACAGCTGAAAGATGAAATTAAGCGGAGCACTTA 3017
121 TTGAGGCGCACTTTCAGCAGTTCAAGACGAATGTAATATGAGGCTTTCAAGAGG 180
3018 TTGAGGCGCACTTTCAGCAGTTCAAGACGAATGTAATATGAGGCTTTCAAGAGG 3077
181 AATTGAAAACCTAAAGAACTCTGATCATGATGATCTTGAAGATGTAATTTCTGA 240
3078 AATTGAAAACCTAAAGAACTCTGATCATGATGATCTTGAAGATGTAATTTCTGA 3137
241 CAGAGCAGCTTTGGAGAGCACTAGAGAACTCTACAGAGCGCAGAGGCTCTCTG 300
3138 CAGAGCAGCTTTGGAGAGCACTAGAGAACTCTACAGAGCGCAGAGGCTCTCTG 3197
301 AGAGAGAGCCAGAAATGTCATCTGGCTTTTACGAAGCAGGCTGAGAGGTCATTA 360
3198 AGAGAGAGCCAGAAATGTCATCTGGCTTTTACGAAGCAGGCTGAGAGGTCATTA 3257
361 AGTGGGAAAAATTGAATCTGATCTCGCTGACTGGCAAGAAAAATTAATGAGACCT 420
3258 AGTGGGAAAAATTGAATCTGATCTCGCTGACTGGCAAGAAAAATTAATGAGACCT 3317
421 AAAGACTCCAGAACTTCAAGAGGCAAGATGAGCTGAACTCAAGCTGCGCCAAAG 480
3318 AAAGACTCCAGAACTTCAAGAGGCAAGATGAGCTGAACTCAAGCTGCGCCAAAG 3377
481 AGGTGATCAAGGAGTCTGGAGCGCCGTGGCGATCTCTCATTTGATCTCTCAAG 540
3378 AGGTGATCAAGGAGTCTGGAGCGCCGTGGCGATCTCTCATTTGATCTCTCAAG 3437
541 ACCTCGAGAAAGTCAAGGCACTTGGAGAGAAATTTGGCCTCTGAAAAGAACTGAG 600
3438 ACCTCGAGAAAGTCAAGGCACTTGGAGAGAAATTTGGCCTCTGAAAAGAACTGAG 3497
601 ACCTCATATGACTTGTGCTGCGCAGCTTACCATTTGGGGAATTCAGCTCACCGTA 660
3498 ACCTCATATGACTTGTGCTGCGCAGCTTACCATTTGGGGAATTCAGCTCACCGTA 3557
661 TCAGCACTCTGGAAGACCTGAACACAGATGAAAGCTTCTGAGGTGGCCGTGAGAC 720
3558 TCAGCACTCTGGAAGACCTGAACACAGATGAAAGCTTCTGAGGTGGCCGTGAGAC 3617
721 GAGTCAGGCACTGATGAAGCCACAGGGAATTTGGTCCAGCATCTGAGCACTTTCT 780
3618 GAGTCAGGCACTGATGAAGCCACAGGGAATTTGGTCCAGCATCTGAGCACTTTCT 3677
781 CCAGGTCTGTCCAGGGTCCCTGGGAGAGAGCATCTGCCAAACAAATGGCCCTACTA 840
3678 CCAGGTCTGTCCAGGGTCCCTGGGAGAGAGCATCTGCCAAACAAATGGCCCTACTA 3737
841 TCAACCAAGAGACTCAAACTTGTGCTGGACCAATCCCAAAATGACAGAGCTTACCA 900
3738 TCAACCAAGAGACTCAAACTTGTGCTGGACCAATCCCAAAATGACAGAGCTTACCA 3797
901 CTTTACGTCAGCTGATTAATGTCAGATTTCTCAGCTTATGAGCTGCGCATGAACT 960
3798 CTTTACGTCAGCTGATTAATGTCAGATTTCTCAGCTTATGAGCTGCGCATGAACT 3857
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961 GACTGCAGAGAGCCCTTTGCTTGGATCTCTTGAAGCTTGCAGCTGATGATGCTTGG 1020
3858 GACTGCAGAGAGCCCTTTGCTTGGATCTCTTGAAGCTTGCAGCTGATGATGCTTGG 3917
1021 ACCAGCAACACTCAAGCAAAATGACAGCCCAATGATATCTCGAGATTAATTTGTT 1080
3918 ACCAGCAACACTCAAGCAAAATGACAGCCCAATGATATCTCGAGATTAATTTGTT 3977
1081 TGACCACTATTATGACAGCCCTGGAGCAAGAGCAACAATTTGGTCAAGCTCTCT 1140
3978 TGACCACTATTATGACAGCCCTGGAGCAAGAGCAACAATTTGGTCAAGCTCTCT 4037
1141 GCGTGAATATGATCTGAATCTGCTGTAATGTTATGATACGAGCAAGAGAGGA 1200
4038 GCGTGAATATGATGATCTGAATCTGCTGTAATGTTATGATACGAGCAAGAGAGGA 4097
1201 TCCGTGCTCTGCTTTTAAATCTGCAATCTTCCCTGTGTAAGCAATTTGAAAGCA 1260
4098 TCCGTGCTCTGCTTTTAAATCTGCAATCTTCCCTGTGTAAGCAATTTGAAAGCA 4157
1261 AGTACAGATACCTTTTCAAGCAAGTGGCAATTCACAGATTTTGTGACAGGCGAGG 1320
4158 AGTACAGATACCTTTTCAAGCAAGTGGCAATTCACAGATTTTGTGACAGGCGAGG 4217
1321 TGGGCTCTCTTCTGATGATCTATCCAAATTCACAGACAGTTGGTGAAGTTGATCT 1380
4218 TGGGCTCTCTTCTGATGATCTATCCAAATTCACAGACAGTTGGTGAAGTTGATCT 4277
1381 TTGGGGGCAATTAATGAGCAAGTGTCCGAGCTGCTTCAATTTGCTAATTAATGAC 1440
4278 TTGGGGGCAATTAATGAGCAAGTGTCCGAGCTGCTTCAATTTGCTAATTAATGAC 4337
1441 CAGAGATGAGAGCGGCGCTCTTCTGAGCTGATGAGCTGGAACCCAGTCCATGAGT 1500
4338 CAGAGATGAGAGCGGCGCTCTTCTGAGCTGATGAGCTGGAACCCAGTCCATGAGT 4397
1501 G 1501
4398 G 4398
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RESULT 10
US-09-845-416-34
Sequence 34, Application US/09845416
Publication No US2003017312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: DE1142
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SBO ID NO 34
LENGTH: 4990
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1501; DB 10; Length 4990;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 TCAACATTAGGTCCTTGGAGGCACTTTCGACCAATGGAAGGCTTGCACTTTCTC 60
2992 TCAACATTAGGTCCTTGGAGGCACTTTCGACCAATGGAAGGCTTGCACTTTCTC 2981
61 TGACGAAGACTCTGGTGTGCTACAGCTGAAAGATGAAATTAAGCGGAGCACTTA 120
2982 TGACGAAGACTCTGGTGTGCTACAGCTGAAAGATGAAATTAAGCGGAGCACTTA 3041
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QY 121 TTGGAGCGACTTTCCAGAGCTTCAAGAGCAAGATGATCATATAGGGCCCTTCAAGAGG 180
DB 3042 TTGGAGCGACTTTCCAGAGCTTCAAGAGCAAGATGATCATATAGGGCCCTTCAAGAGG 3101
QY 181 AATTGAAAATCTAAAGAACTGTATCATGAGTACTCTTGAAGCTGTACGAATATTTCTGA 240
DB 3102 AATTGAAAATCTAAAGAACTGTATCATGAGTACTCTTGAAGCTGTACGAATATTTCTGA 3161
QY 241 CAGAGCAGCTTTGGAAGGACTAGAGAACTTACAGAGAGCCCAAGAGCTGCTCTCG 300
DB 3162 CAGAGCAGCTTTGGAAGGACTAGAGAACTTACAGAGAGCCCAAGAGCTGCTCTCG 3221
QY 301 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGAGCTGAGAGTCAATATCTG 360
DB 3222 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAGAGCTGAGAGTCAATATCTG 3281
QY 361 AGTGGGAAAAATGAACTGTCACTCGGCTTCTACGAAGAGCTGAGAGTCAATATCTG 420
DB 3282 AGTGGGAAAAATGAACTGTCACTCGGCTTCTACGAAGAGCTGAGAGTCAATATCTG 3341
QY 421 AAGAGCTCCAGAACTTCAAGAGAGCCAGAGTGAAGCTCAAGCTGAGCCCAAGCTG 480
DB 3342 AAGAGCTCCAGAACTTCAAGAGAGCCAGAGTGAAGCTCAAGCTGAGCCCAAGCTG 3401
QY 481 AGGTGATCAAGGATCTTGGCAGAGCCGCTGAGCTCTCTCATTTGACTCTTCAAGATC 540
DB 3402 AGGTGATCAAGGATCTTGGCAGAGCCGCTGAGCTCTCTCATTTGACTCTTCAAGATC 3461
QY 541 ACCCTGAGAAAGTCAAGGACTTCCAGAGAGAAATTCGCTCTGAAAAGAACTGAGCC 600
DB 3462 ACCCTGAGAAAGTCAAGGACTTCCAGAGAGAAATTCGCTCTGAAAAGAACTGAGCC 3521
QY 601 AGCTCAATGACTTGTGCGCAGCTTACCACTTTGGAGATTCAGCTCTCAAGCTTAAAC 660
DB 3522 AGCTCAATGACTTGTGCGCAGCTTACCACTTTGGAGATTCAGCTCTCAAGCTTAAAC 3581
QY 661 TCAGAGCTCTGGAAGACCTGGAACACCAAGATGGAACCTTCTGAGGTGCGCTGAGAGC 720
DB 3582 TCAGAGCTCTGGAAGACCTGGAACACCAAGATGGAACCTTCTGAGGTGCGCTGAGAGC 3641
QY 721 GAGTGAAGCAGCTGATGATGAGAGCCCAAGGACTTTGGTCCAGATCTGAGAGCTTTCTT 780
DB 3642 GAGTGAAGCAGCTGATGATGAGAGCCCAAGGACTTTGGTCCAGATCTGAGAGCTTTCTT 3701
QY 781 CCAGCTCTGTCCAGGCTCCCTGGAGAGAGCCATCTGCAAAACAAAGTCCCTACTATA 840
DB 3702 CCAGCTCTGTCCAGGCTCCCTGGAGAGAGCCATCTGCAAAACAAAGTCCCTACTATA 3761
QY 841 TCACACGAGAGCTCAAACTGTCGAGGACATCCCAAAATGACAGAGCTTACCACT 900
DB 3762 TCACACGAGAGCTCAAACTGTCGAGGACATCCCAAAATGACAGAGCTTACCACT 3821
QY 901 CTTTGAAGCTGATATATGATGATGATTCAGATTCCTAGGCTTATGAGCTGCAATGCCAA 960
DB 3822 CTTTGAAGCTGATATATGATGATGATTCAGATTCCTAGGCTTATGAGCTGCAATGCCAA 3881
QY 961 GACTGAGAGAGCCCTTGTCTTGTGATCTCTTGAAGCTGTGAGCTGCAATGATGATGCTTGG 1020
DB 3882 GACTGAGAGAGCCCTTGTCTTGTGATCTCTTGAAGCTGTGAGCTGCAATGATGATGCTTGG 3941
QY 1021 ACCAGCAACACTCAAGAAATGACAGCCCAATGATTCCTGAGAGATTAATTAATTTGT 1080
DB 3942 ACCAGCAACACTCAAGAAATGACAGCCCAATGATTCCTGAGAGATTAATTAATTTGT 4001
QY 1081 TGACCACTATTTATGACCGCTGAGAGCAAGAGCAAAATTTGTCAACGTCCTCTCT 1140
DB 4002 TGACCACTATTTATGACCGCTGAGAGCAAGAGCAAAATTTGTCAACGTCCTCTCT 4061
QY 1141 GCGTGATATGTGTCTGACGCTGCTGAAATGTTATGATTAAGGAGCAACGAGAGGA 1200
DB 4062 GCGTGATATGTGTCTGACGCTGCTGAAATGTTATGATTAAGGAGCAACGAGAGGA 4121

QY 1201 TCCGTGTCTGTCTTTTAAACCTGGATCATTTCCCTGTGTAAAGCACTTTGGAAGCA 1260
DB 4122 TCCGTGTCTGTCTTTTAAACCTGGATCATTTCCCTGTGTAAAGCACTTTGGAAGCA 4181
QY 1261 AGTACAGATACCTTTTCAAGAGAGTGGCAATTTCAACAGATTTTGTGACCAAGCGAGCC 1320
DB 4182 AGTACAGATACCTTTTCAAGAGAGTGGCAATTTCAACAGATTTTGTGACCAAGCGAGCC 4241
QY 1321 TGGGCTCTCTGTGATGATTTCTATCCAAATTTCAAGAGAGTGGTGGTGAATTTGATCATCT 1380
DB 4242 TGGGCTCTCTGTGATGATTTCTATCCAAATTTCAAGAGAGTGGTGGTGAATTTGATCATCT 4301
QY 1381 TTGGGGGAGATTAATTAAGAGCAAGTGTCCGAGCTGCTTCAATTTGTATATATTAAGC 1440
DB 4302 TTGGGGGAGATTAATTAAGAGCAAGTGTCCGAGCTGCTTCAATTTGTATATATTAAGC 4361
QY 1441 CAGAGATGAAAGCGGCTCTTCTTACAGCTGATGAGAGCTGGAACCCCAATGCTTGT 1500
DB 4362 CAGAGATGAAAGCGGCTCTTCTTACAGCTGATGAGAGCTGGAACCCCAATGCTTGT 4421
QY 1501 G 1501
DB 4422 G 4422

RESULT 11

US-09-845-416-36
Sequence 36, Application US/09845416
Publication No. US20030171312A1
GENERAL INFORMATION:
APPLICANT: XIAO, XIAO
TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
FILE REFERENCE: DE1142
CURRENT APPLICATION NUMBER: US/09/845,416
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,777
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 36
LENGTH: 5060
TYPE: DNA
ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 1501; DB 10; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCACATTAAGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGGCTGCACTTTCTC 60
DB 2992 TCACATTAAGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGGCTGCACTTTCTC 3051
QY 61 TGCAGAACTTGTGTGTGCTTACAGCTGAAAGATGATGAATTAAGCCGAGAGCACTTA 120
DB 3052 TGCAGAACTTGTGTGTGCTTACAGCTGAAAGATGATGAATTAAGCCGAGAGCACTTA 3111
QY 121 TTGAGGGGACCTTCCAGAGACTTCAAGAGCAAGAGATGTACATGAGGCTTCAAGAGG 180
DB 3112 TTGAGGGGACCTTCCAGAGACTTCAAGAGCAAGAGATGTACATGAGGCTTCAAGAGG 3171
QY 181 AATTGAAAATCTAAAGAACTGTATCATGAGTACTCTTGAAGCTGTAGAAATTTCTGA 240
DB 3172 AATTGAAAATCTAAAGAACTGTATCATGAGTACTCTTGAAGCTGTAGAAATTTCTGA 3231
QY 241 CAGAGCAGCTTTTGAAGAGCTAGAGAACTTCAAGAGAGCCCAAGAGAGTGCCTCTG 300
DB 3232 CAGAGCAGCTTTTGAAGAGCTAGAGAACTTCAAGAGAGCCCAAGAGAGTGCCTCTG 3291
QY 301 AGAGAGAGCCCAAGATGTCACTGGGCTTCTAGAGAGAGGCTGAGAGGTCAATATCTG 360
DB 3292 AGAGAGAGCCCAAGATGTCACTGGGCTTCTAGAGAGAGGCTGAGAGGTCAATATCTG 3351

QY 361 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTG 420
DB 3352 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTG 3411
QY 421 AAAGACTTCAGGAACTTCAAGAGGCCAGATGAGTGAACCTCAAGCTGGCCAAAGCTG 480
DB 3412 AAAGACTTCAGGAACTTCAAGAGGCCAGATGAGTGAACCTCAAGCTGGCCAAAGCTG 3471
QY 481 AGGTGATCAAGGGATCTTGGCAGCCCGTGGCGATCTTCTTAATGACTCTCTCCAAAGTC 540
DB 3472 AGGTGATCAAGGGATCTTGGCAGCCCGTGGCGATCTTCTTAATGACTCTCTCCAAAGTC 3531
QY 541 ACCCTGAGAAAGTCAAGGCACTTGGAGAGAAATTTGGCCCTCTGAAAAGAAAGTGAAGCC 600
DB 3532 ACCCTGAGAAAGTCAAGGCACTTGGAGAGAAATTTGGCCCTCTGAAAAGAAAGTGAAGCC 3591
QY 601 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATAAC 660
DB 3592 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATAAC 3651
QY 661 TCAGCACTCTGGAAGACTTGAACACAGATGGAAGCTTCTGAGGTGGCCGCTCGAGAGCC 720
DB 3652 TCAGCACTCTGGAAGACTTGAACACAGATGGAAGCTTCTGAGGTGGCCGCTCGAGAGCC 3711
QY 721 GAGTCAGGCACTGATGAGAGCCCAAGGGCACTTTGGTCAAGCATCTGAGCACTTTCTTT 780
DB 3712 GAGTCAGGCACTGATGAGAGCCCAAGGGCACTTTGGTCAAGCATCTGAGCACTTTCTTT 3771
QY 781 CCAAGTCTGTCTCAGAGGTCTCCTGGAGAGAGCCATCTCGCCAAAGAAAGTGCCTACTATA 840
DB 3772 CCAAGTCTGTCTCAGAGGTCTCCTGGAGAGAGCCATCTCGCCAAAGAAAGTGCCTACTATA 3831
QY 841 TCAACCAAGAGACTTCAAAACAATTGCTGGAGCACTCCCAAAATAGACAGACTCTAACAGT 900
DB 3832 TCAACCAAGAGACTTCAAAACAATTGCTGGAGCACTCCCAAAATAGACAGACTCTAACAGT 3891
QY 901 CTTTAACTGACCTGAATTAATGTCAGATTCTCAGCTTATAGAGCTGCCATGAAATCCCGAA 960
DB 3892 CTTTAACTGACCTGAATTAATGTCAGATTCTCAGCTTATAGAGCTGCCATGAAATCCCGAA 3951
QY 961 GACTGCAAGAAAGCCCTTGTCTTGTGATCTCTTGAAGCTGTCAAGCTGATGATGCTTTGG 1020
DB 3952 GACTGCAAGAAAGCCCTTGTGTGATCTCTTGAAGCTGTCAAGCTGATGATGCTTTGG 4011
QY 1021 ACCAGCAAACTTCAAGCAAAATGACAGCCCATGATATCTGCAAGATTATTAATGTT 1080
DB 4012 ACCAGCAAACTTCAAGCAAAATGACAGCCCATGATATCTGCAAGATTATTAATGTT 4071
QY 1081 TGACCACTATTTAAGACCGCTGAGAGAGCAACAATTTGTGCAAGCTCCCTCTCT 1140
DB 4072 TGACCACTATTTAAGACCGCTGAGAGAGCAACAATTTGTGCAAGCTCCCTCTCT 4131
QY 1141 GCGTGAATATGTCTGTAATGCTGCTGAATGTTTATGATACGGAGCAAGAGAGAG 1200
DB 4132 GCGTGAATATGTCTGTAATGCTGCTGAATGTTTATGATACGGAGCAAGAGAGAG 4191
QY 1201 TCCGTGTCTGTCTTTTAAACCTGCAATCTTTCCCTGTGTAAAGCACTTTGGAAGCA 1260
DB 4192 TCCGTGTCTGTCTTTTAAACCTGCAATCTTTCCCTGTGTAAAGCACTTTGGAAGCA 4251
QY 1261 AGTCAATATCTTTTCAAGAAAGTGGCAAGTTCAACAGAAATTTTGTGACCAAGGCGAGCC 1320
DB 4252 AGTCAATATCTTTTCAAGAAAGTGGCAAGTTCAACAGAAATTTTGTGACCAAGGCGAGCC 4311
QY 1321 TGGGCTCTCTTCTGATGATCTATCCAAATTCAGAGACAGTGGGTGAAGTTGATGATCT 1380
DB 4312 TGGGCTCTCTTCTGATGATCTATCCAAATTCAGAGACAGTGGGTGAAGTTGATGATCT 4371
QY 1381 TTGGGGGAGTGAACATGAGCCAAAGTGTCCGAGAGTGTCCAAATTTGCTAATATAAGC 1440
DB 4372 TTGGGGGAGTGAACATGAGCCAAAGTGTCCGAGAGTGTCCAAATTTGCTAATATAAGC 4431

QY 1441 CAGAGATCGAAGCGCCCTCTTCTTAGACTGATGAGACTGGAACCCCAAGTCCATGTGT 1500
DB 4432 CAGAGATCGAAGCGCCCTCTTCTTAGACTGATGAGACTGGAACCCCAAGTCCATGTGT 4491
QY 1501 G 1501
DB 4492 G 4492

RESULT 12
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 100.0%; Score 1501; DB 10; Length 5149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAACATTAGGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGTCTGACCTTTCTC 60
DB 3081 TCAACATTAGGTCCCATTTTGAAGCCAGTTCTGACCAAGTGAAGCGTCTGACCTTTCTC 3140
QY 61 TGCAGGAACCTTGT 120
DB 3141 TGCAGGAACCTTGT 3200
QY 121 TTGAGGCGACTTTCACAGACTTCAAGAGCAGAAAGTATCATATGAGGCTTTCAAGAGG 180
DB 3201 TTGAGGCGACTTTCACAGACTTCAAGAGCAGAAAGTATCATATGAGGCTTTCAAGAGG 3260
QY 181 AATTGAATACTTAAGAACTGTATATCATGATGACTCTTTGAGACTGTACGAATATTTCTGA 240
DB 3261 AATTGAATACTTAAGAACTGTATATCATGATGACTCTTTGAGACTGTACGAATATTTCTGA 3320
QY 241 CAGAGCAAGCTTTTGAAGAGACTAAGAAACTCTACAGAGCCCAAGAGAGCTGCTCTCTG 300
DB 3321 CAGAGCAAGCTTTTGAAGAGACTAAGAAACTCTACAGAGCCCAAGAGAGCTGCTCTCTG 3380
QY 301 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGCTCAATACTG 360
DB 3381 AGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGCTCAATACTG 3440
QY 361 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTG 420
DB 3441 AGTGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTG 3500
QY 421 AAAGACTTCAGGAACTTCAAGAGGCCAGATGAGTGAACCTCAAGCTGGCCAAAGCTG 480
DB 3501 AAAGACTTCAGGAACTTCAAGAGGCCAGATGAGTGAACCTCAAGCTGGCCAAAGCTG 3560
QY 481 AGGTGATCAAGGGATCTTGGCAGCCCGTGGCGATCTTCTTAATGACTCTCTCCAAAGTC 540
DB 3561 AGGTGATCAAGGGATCTTGGCAGCCCGTGGCGATCTTCTTAATGACTCTCTCCAAAGTC 3620
QY 541 ACCTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCGCTTGAAGAGAAAGTGAAGCC 600
DB 3621 ACCTGAGAAAGTCAAGGCACTTGAAGAGAAATTTGGCGCTTGAAGAGAAAGTGAAGCC 3680

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QY 601 ACCTCAATGACCTTGTCTGCGCACTTACCACTTTGGGCAATTGAGTCTGACCGTATTAAC 660
Db 3681 ACCTCAATGACCTTGTCTGCGCACTTACCACTTTGGGCAATTGAGTCTGACCGTATTAAC 3740
QY 661 TCAGCACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGGCCGCTGAGAAC 720
Db 3741 TCAGCACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGGCCGCTGAGAAC 3800
QY 721 GAGTCAGGAGCTGATGGAAGCCACAGGGACTTTGGTCAGATCTGACGACTTCTT 780
Db 3801 GAGTCAGGAGCTGATGGAAGCCACAGGGACTTTGGTCAGATCTGACGACTTCTT 3860
QY 781 CCAAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTGCGCAAAAGTGGCCCTTAATA 840
Db 3861 CCAAGTCTGTCCAGGGTCCCTGGAGAGAGCCATCTGCGCAAAAGTGGCCCTTAATA 3920
QY 841 TCAACACAGGAGCTCAAAACAACCTGCTGGGACATCCCAAAATGACAGGCTTACAGT 900
Db 3921 TCAACACAGGAGCTCAAAACAACCTGCTGGGACATCCCAAAATGACAGGCTTACAGT 3980
QY 901 CTTTACGTGACCTGATATATGTCAGATTCTCAGTTATAGACTGCAATGAATCCGAA 960
Db 3981 CTTTACGTGACCTGATATATGTCAGATTCTCAGTTATAGACTGCAATGAATCCGAA 4040
QY 961 GACTGCAAGAGCCCTTTGCTTGGATCTCTTGAAGCTTGAAGCTGATGATGCTTGG 1020
Db 4041 GACTGCAAGAGCCCTTTGCTTGGATCTCTTGAAGCTTGAAGCTGATGATGCTTGG 4100
QY 1021 ACCAGCAACAACCTCAAGCAAAATGACAGGCCATGGAATCTCGAGATTAATAATTGTT 1080
Db 4101 ACCAGCAACAACCTCAAGCAAAATGACAGGCCATGGAATCTCGAGATTAATAATTGTT 4160
QY 1081 TGACCACTATTTATGACCGCTTGAAGCAAGCAACAATTTGGTCAACGCTCTCTCT 1140
Db 4161 TGACCACTATTTATGACCGCTTGAAGCAAGCAACAATTTGGTCAACGCTCTCTCT 4220
QY 1141 GCGTGAATATGTCGTGAACCTGCTGATGTTTATGATACGGACGAACAGGAGGA 1200
Db 4221 GCGTGAATATGTCGTGAACCTGCTGATGTTTATGATACGGACGAACAGGAGGA 4280
QY 1201 TCCGTGCTCTCTTTTAAATGCGATCATTTCCCTGTGTAAGCACTTTGGAAGCA 1260
Db 4281 TCCGTGCTCTCTTTTAAATGCGATCATTTCCCTGTGTAAGCACTTTGGAAGCA 4340
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTGACAGCGCAGGC 1320
Db 4341 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGATTTTGTGACAGCGCAGGC 4400
QY 1321 TGGGCTCTCTCTGATGATCTATCCAAATTTCAAGCAAGTGGGGAAGTTGATCTCT 1380
Db 4401 TGGGCTCTCTCTGATGATCTATCCAAATTTCAAGCAAGTGGGGAAGTTGATCTCT 4460
QY 1381 TTGGGGGCGATTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTGCTAATAAAGC 1440
Db 4461 TTGGGGGCGATTAACATTTGAGCCAAAGTGTCCGAGCTGCTTCCAAATTTGCTAATAAAGC 4500
QY 1441 CAGGATTCGAAGCGGCGCTCTTCTTAAGCTGATGGAAGTGAAGCCCAAGTCCATGATG 1500
Db 4521 CAGGATTCGAAGCGGCGCTCTTCTTAAGCTGATGGAAGTGAAGCCCAAGTCCATGATG 4580
QY 1501 G 1501
Db 4581 G 4581
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RESULT 13
US-10-149-736-40

; Sequence 40; Application US/10149736
; Publication No. US20030216332A1

; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.

; APPLICANT: Harper, Scott Q.

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; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: US-06968
; CURRENT APPLICATION NUMBER: US/10/149, 736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40
; LENGTH: 5339
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-40
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Query Match 100.0%; Score 1501; DB 17; Length 5339;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TCAACATTAGTCCATTTGGAAGCCAGTTCTGACAGTGAAGCCGTCTGACCTTCTC 60
Db 1866 TCAACATTAGTCCATTTGGAAGCCAGTTCTGACAGTGAAGCCGTCTGACCTTCTC 1925
QY 61 TGAGGAACCTTGTGCTGCTACAGTGAAGATGATGAATTAAGCCGCGACGACCTTA 120
Db 1926 TGAGGAACCTTGTGCTGCTACAGTGAAGATGATGAATTAAGCCGCGACGACCTTA 1985
QY 121 TTGAGGCGACTTTCAGCAGTTTCAAGAGCAAGATGATGATGATGATGATGATGATG 180
Db 1986 TTGAGGCGACTTTCAGCAGTTTCAAGAGCAAGATGATGATGATGATGATGATGATG 2045
QY 181 AATTGAAATTAAGAACTGTATCATGATGATCTTGAAGCTGATGATGATGATGATG 240
Db 2046 AATTGAAATTAAGAACTGTATCATGATGATCTTGAAGCTGATGATGATGATGATG 2105
QY 241 CAGAGCAGCTTTGGAAGAGCTAGAGAACTTACAGAGAGCCCAAGAGCTGCTCTG 300
Db 2106 CAGAGCAGCTTTGGAAGAGCTAGAGAACTTACAGAGAGCCCAAGAGCTGCTCTG 2165
QY 301 AGAGAGAGCCGAAATGTCATCTGCTTCTTCAAGAAAGAGCTGAGAGTCAATATCTG 360
Db 2166 AGAGAGAGCCGAAATGTCATCTGCTTCTTCAAGAAAGAGCTGAGAGTCAATATCTG 2225
QY 361 AGTGGGAAATTTGAACCTGCACTCGCTGATGATGATGATGATGATGATGATGATG 420
Db 2226 AGTGGGAAATTTGAACCTGCACTCGCTGATGATGATGATGATGATGATGATGATG 2285
QY 421 AAGAGCTCCAGGAACCTTCAAGAGGCGACAGATGAGCTGAGCTCAAGTGGCGCAAGCTG 480
Db 2286 AAGAGCTCCAGGAACCTTCAAGAGGCGACAGATGAGCTGAGCTCAAGTGGCGCAAGCTG 2345
QY 481 AGGTGATCAAGGATCTTGGCAGCCCTGCGATCTCTCATTTGACTCTTCAAGATC 540
Db 2346 AGGTGATCAAGGATCTTGGCAGCCCTGCGATCTCTCATTTGACTCTTCAAGATC 2405
QY 541 ACCTGAGAAAGTCAAGGAGCTTCAAGAGAAATGCGCTCTGAAAGAAAGAGCGAGGC 600
Db 2406 ACCTGAGAAAGTCAAGGAGCTTCAAGAGAAATGCGCTCTGAAAGAAAGAGCGAGGC 2465
QY 601 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCAACGATTAAC 660
Db 2466 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCTCAACGATTAAC 2525
QY 661 TCAGCACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGGCCGCTGAGAAC 720
Db 2526 TCAGCACTCTGGAAGACCTGGAACCAAGATGGAAGCTTCTGCAAGTGGCCGCTGAGAAC 2585
QY 721 GAGTCAGGAGCTGATGGAAGCCACAGGGAATTTGGTCAAGCACTGACGACTTCTTCTT 780
Db 2586 GAGTCAGGAGCTGATGGAAGCCACAGGGAATTTGGTCAAGCACTGACGACTTCTTCTT 2645
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QY 781 CCAGTGTGTCAGAGGTCCTGGGAGAGAGCATCTGSCAAACAAAGTGCCTACTATA 840
Db 2846 CCAGTGTGTCAGAGGTCCTGGGAGAGAGCATCTGSCAAACAAAGTGCCTACTATA 2705
QY 841 TCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAGAGCTTACAGT 900
Db 2706 TCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAGAGCTTACAGT 2765
QY 901 CTTTAACTGACCTGATATATGTCAAGATTCTGACTTATAGACTGCGCATGAACTCCGAA 960
Db 2766 CTTTAACTGACCTGATATATGTCAAGATTCTGACTTATAGACTGCGCATGAACTCCGAA 2825
QY 961 GACTGCGAAGAGCCCTTGGCTTGGATCTCTTGAAGCTGCGCTGAGCTGATGCTTGG 1020
Db 2826 GACTGCGAAGAGCCCTTGGCTTGGATCTCTTGAAGCTGCGCTGAGCTGATGCTTGG 2885
QY 1021 ACCAGCAACACCTCAAGCAAAATGACAGCCCATGATATCTCGAGATTATTAATTGT 1080
Db 2886 ACCAGCAACACCTCAAGCAAAATGACAGCCCATGATATCTCGAGATTATTAATTGT 2945
QY 1081 TGACCACTATTATGACCGCTGAGCAAGACACACAAATTTGGTCAACGTCCCTCT 1140
Db 2946 TGACCACTATTATGACCGCTGAGCAAGACACACAAATTTGGTCAACGTCCCTCT 3005
QY 1141 GCGTGAATATGTCTGAACTGGCTGTAATGTTATGATACGGAGAGAAAGAGAGAG 1200
Db 3006 GCGTGAATATGTCTGAACTGGCTGTAATGTTATGATACGGAGAGAAAGAGAGAG 3065
QY 1201 TCCGTGTCTGCTTTTAAATGCGCATCATTTCCCTGTAAAGACATTTGGAAACA 1260
Db 3066 TCCGTGTCTGCTTTTAAATGCGCATCATTTCCCTGTAAAGACATTTGGAAACA 3125
QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACAGCGCAGC 1320
Db 3126 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGATTTTGTGACAGCGCAGC 3185
QY 1321 TGGGCTCTCTCTGTCAGATATCTATCCAAATTCAGACAGTGGGTGAAGTGCATCT 1380
Db 3186 TGGGCTCTCTCTGTCAGATATCTATCCAAATTCAGACAGTGGGTGAAGTGCATCT 3245
QY 1381 TTGGGGGAGATGACATTGAGCCCAAGTGTCCGAGAGCTTCCAAATTTCTAATAATAAGC 1440
Db 3246 TTGGGGGAGATGACATTGAGCCCAAGTGTCCGAGAGCTTCCAAATTTCTAATAATAAGC 3305
QY 1441 CAGAGATCGAAGCGCCCTCTTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT 1500
Db 3306 CAGAGATCGAAGCGCCCTCTTCTTCTAGACTGATGAGACTGGAACCCAGTCCATGTGT 3365
QY 1501 G 1501
Db 3366 G 3366

RESULT 14
US-10-149-736-41
; Sequence 41, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott O.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 5462

TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic
US-10-149-736-41
Query Match 100.0%; Score 1501; DB 17; Length 5462;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACACAGTGAAGCGTCTGACCTTTCTC 60
Db 1989 TCAACATTAGTCCCATTTGGAAGCCAGTTCTGACACAGTGAAGCGTCTGACCTTTCTC 2048
QY 61 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAGATGATTAAGCCGAGGACACTA 120
Db 2049 TGCAGGAACCTTCTGTGTGGCTACAGCTGAAGATGATTAAGCCGAGGACACTA 2108
QY 121 TTGAGGCGCACTTTCAGCAGTTCAGAGCAGAAAGATGATCATAGGCTTCAAGAGG 180
Db 2109 TTGAGGCGCACTTTCAGCAGTTCAGAGCAGAAAGATGATCATAGGCTTCAAGAGG 2168
QY 181 AATTGAAAATTAAGAACCTGTAAATCATGACTCTTTGAGACTGTACGAATTTTCTGA 240
Db 2169 AATTGAAAATTAAGAACCTGTAAATCATGACTCTTTGAGACTGTACGAATTTTCTGA 2228
QY 241 CAGACAGCCCTTTGGAAGACTAGAGAACTCTACCGAGACCCAGAGAGCTGCTCCTG 300
Db 2229 CAGACAGCCCTTTGGAAGACTAGAGAACTCTACCGAGACCCAGAGAGCTGCTCCTG 2288
QY 301 AGGAGAGAGCCAGAAATGCTCACTGCTTCTACGAAAGCAGCTGAGAGGTCAATACCTG 360
Db 2289 AGGAGAGAGCCAGAAATGCTCACTGCTTCTACGAAAGCAGCTGAGAGGTCAATACCTG 2348
QY 361 AGTGGAAAAATTGAACCTGTGACTTCGCTGACTGGCAGAGAAAAATGATGAGACCTTTG 420
Db 2349 AGTGGAAAAATTGAACCTGTGACTTCGCTGACTGGCAGAGAAAAATGATGAGACCTTTG 2408
QY 421 AAAGATTCAGAGAACTTCAAGAGGCAAGATGAGTGGACTCAAGGTGGCCAAAGCTG 480
Db 2409 AAAGATTCAGAGAACTTCAAGAGGCAAGATGAGTGGACTCAAGGTGGCCAAAGCTG 2468
QY 481 AGGTGATCAAGAGATCTCTGGAGCCCGTGGGCGATCTCTCATTTGACTCTCTCAAGATC 540
Db 2469 AGGTGATCAAGAGATCTCTGGAGCCCGTGGGCGATCTCTCATTTGACTCTCTCAAGATC 2528
QY 541 ACCTGAGAAAGTCAAGGCACTTGAAGGAAATTTGCGCTCTGAAGAGAAAGTGAAGCC 600
Db 2529 ACCTGAGAAAGTCAAGGCACTTGAAGGAAATTTGCGCTCTGAAGAGAAAGTGAAGCC 2588
QY 601 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCCACCGTATAAC 660
Db 2589 ACCTCAATGACCTTGTCTGCGCAGCTTACCACTTTGGGCAATTCAGCTCCACCGTATAAC 2648
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QY 721 GAGTCAGCAGCTGATGATGAGCCCAAGAGACTTTGTCTCAGCATCTCAGCACTTTCTTT 780
Db 2709 GAGTCAGCAGCTGATGATGAGCCCAAGAGACTTTGTGTCTCAGCATCTCAGCACTTTCTTT 2768
QY 781 CCAGTGTGTCAGAGGTCCTGGGAGAGAGCATCTGSCAAACAAAGTGCCTACTATA 840
Db 2769 CCAGTGTGTCAGAGGTCCTGGGAGAGAGCATCTGSCAAACAAAGTGCCTACTATA 2828
QY 841 TCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAGAGCTTACAGT 900
Db 2829 TCAACCAAGAGACTCAAAACAATTGCTGGAGCAATCCCAAAATGACAGAGCTTACAGT 2888
QY 901 CTTTAACTGACCTGATATATGTCAAGATTCTGACTTATAGACTGCGCATGAACTCCGAA 960
Db 2889 CTTTAACTGACCTGATATATGTCAAGATTCTGACTTATAGACTGCGCATGAACTCCGAA 2948

QY 961 GACTGAGAGGCCCTTTGCTGATCTCTTGAGCCTGTCAGCTGCATGTGATGCTTGG 1020
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Db 2949 GACTGAGAGAGGCCCTTTGCTGATCTCTTGAGCCTGTCAGCTGCATGTGATGCTTGG 3008
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QY 1021 ACCAGCACAACCTCAAGCAAAATGACACGCCCATGTGATATCTGAGATTAATTAATGTT 1080
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Db 3009 ACCAGCACAACCTCAAGCAAAATGACACGCCCATGTGATATCTGAGATTAATTAATGTT 3068
| | | | |
QY 1081 TGACCACTATTATATGACCGCTGAGCAAGACACAACAATTGTGCAACGCTCTCTCT 1140
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Db 3069 TGACCACTATTATATGACCGCTGAGCAAGACACAACAATTGTGCAACGCTCTCTCT 3128
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QY 1141 GCGTGAATATGTGTGTAATCTGCTGCTGATGTTATGATACGGAGACGAACAGGAGAGGA 1200
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Db 3129 GCGTGAATATGTGTGTAATCTGCTGCTGATGTTATGATACGGAGACGAACAGGAGAGGA 3188
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QY 1201 TCCGTGCTCTGCTTTTAAATACTGGCATCATTTCCCTGTGTAAAGCACAATTGGAAACA 1260
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Db 3189 TCCGTGCTCTGCTTTTAAATACTGGCATCATTTCCCTGTGTAAAGCACAATTGGAAACA 3248
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QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTGACCAAGCCAGAGC 1320
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Db 3249 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGATTTGTGACCAAGCCAGAGC 3308
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QY 1321 TGGGCTCTCTTCTGATGATTTCTCAAAATTCAGAGACAGTTGGGTGAAGTTGATCCT 1380
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Db 3309 TGGGCTCTCTTCTGATGATTTCTCAAAATTCAGAGACAGTTGGGTGAAGTTGATCCT 3368
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QY 1381 TTGGGGGAGATGAACATTTAGCAAGTGTCCGAGAGTCTTCCAAATTTGCTAATAATTAAGC 1440
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Db 3369 TTGGGGGAGATGAACATTTAGCAAGTGTCCGAGAGTCTTCCAAATTTGCTAATAATTAAGC 3428
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QY 1441 CAGAGATGGAAGCGGCTCTTCTCTAGACTGATGATGAGACTGAAACCCAGTCCATGTGT 1500
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Db 3429 CAGAGATGGAAGCGGCTCTTCTCTAGACTGATGATGAGACTGAAACCCAGTCCATGTGT 3488
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QY 1501 G 1501
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Db 3489 G 3489
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RESULT 15
US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott O.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match 100.0%; Score 1501; DB 17; Length 8689;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAACATTAGTCCATTGTGGAGCCAGTTCTGACCAAGTGGAGCGTCTGACCTTTCTC 60
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Db 3321 TCAACATTAGTCCATTGTGGAGCCAGTTCTGACCAAGTGGAGCGTCTGACCTTTCTC 3380
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QY 61 TCGAGAACTTCTGTGTGCTTACAGCTGAAGAATGATGAATTAAGCCGGGAGGACCTTA 120
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Db 3381 TCGAGAACTTCTGTGTGCTTACAGCTGAAGAATGATGAATTAAGCCGGGAGGACCTTA 3440
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QY 121 TTGGAGCGCATTTTCCAGCAGTGTGAGAGCAGAACGATGTACATATGAGGCCCTTCAAGAGG 180
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Db 3441 TTGGAGCGCATTTTCCAGCAGTGTGAGAGCAGAACGATGTACATATGAGGCCCTTCAAGAGG 3500
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QY 181 AATTGAAAACCTAAAGAACCTGTATATCATAGTACTCTTGAAGCTGTACGATATTTCTGA 240
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Db 3501 AATTGAAAACCTAAAGAACCTGTATATCATAGTACTCTTGAAGCTGTACGATATTTCTGA 3560
| | | | |
QY 241 CAGAGCGCCCTTGGAGAGACTAGAGAACTCTACAGAGGCCCAAGAGAGTGTGCTCTG 300
| | | | |
Db 3561 CAGAGCGCCCTTGGAGAGACTAGAGAACTCTACAGAGGCCCAAGAGAGTGTGCTCTG 3620
| | | | |
QY 301 AGGAGAGGCCCAAGATGTCACTGGCTTCTACGAAAGCAGGCTGAGAGGTCATATCTG 360
| | | | |
Db 3621 AGGAGAGGCCCAAGATGTCACTGGCTTCTACGAAAGCAGGCTGAGAGGTCATATCTG 3680
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QY 361 AGTGGAAAAATTTGAACCTGTGACTCCGCTGACTGGCAGAGAAAAATATGATGAGACCTTG 420
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Db 3681 AGTGGAAAAATTTGAACCTGTGACTCCGCTGACTGGCAGAGAAAAATATGATGAGACCTTG 3740
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QY 421 AAAAGCTCCAGGAACCTTCAAGAGGSCAGATGAGTGAAGTCAAGCTGCGCCCAAGCTG 480
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Db 3741 AAAAGCTCCAGGAACCTTCAAGAGGSCAGATGAGTGAAGTCAAGCTGCGCCCAAGCTG 3800
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QY 481 AGGTGATCAAGGATCTCTGAGAGCCGCTGGGCGATCTCTCATTTGACTCTCCAGATG 540
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Db 3801 AGGTGATCAAGGATCTCTGAGAGCCGCTGGGCGATCTCTCATTTGACTCTCCAGATG 3860
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QY 541 ACCCTGAGAAAGTCAAGGACTTCTGAGAGAAATTTGGCTCTGAAAGAGAAAGTGAAGCC 600
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Db 3861 ACCCTGAGAAAGTCAAGGACTTCTGAGAGAAATTTGGCTCTGAAAGAGAAAGTGAAGCC 3920
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QY 601 ACGTCATGACCTTGTCTGCGCAGCTTACCACTTTGGGCACTTCAAGCTCTCAACGATTAAC 660
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Db 3921 ACGTCATGACCTTGTCTGCGCAGCTTACCACTTTGGGCACTTCAAGCTCTCAACGATTAAC 3980
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QY 661 TCAAGCACTTGGAAAGCTTGAACAACAAGATGAAGCTTCTGCAAGTGGCCGTCAGAGACC 720
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Db 3981 TCAAGCACTTGGAAAGCTTGAACAACAAGATGAAGCTTCTGCAAGTGGCCGTCAGAGACC 4040
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QY 721 GAGTCAGGCGAGCTGAGTGAAGCCCAAGAGGACTTGTGTCAGAGATCTCAGACTTTCTTT 780
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Db 4041 GAGTCAGGCGAGCTGAGTGAAGCCCAAGAGGACTTGTGTCAGAGATCTCAGACTTTCTTT 4100
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QY 781 CCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 840
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Db 4101 CCAAGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATA 4160
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Db 4161 TCAACCAAGGACTTCAACCAACTTGTCTGGAGACCATCCCAAAATGACAGAGCTTACACAGT 4220
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QY 961 GACTGAGAAAGCCCTTGTCTTGATCTCTTGAGCCTGTACGTGATGTGATGCTCTTG 1020
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Db 4281 GACTGAGAAAGCCCTTGTCTTGATCTCTTGAGCCTGTACGTGATGTGATGCTCTTG 4340
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QY 1021 ACCAGCACAACCTCAAGCAAAATGACACGCCCATGTGATATCTGAGATTAATTAATGTT 1080
| | | | |
Db 4341 ACCAGCACAACCTCAAGCAAAATGACACGCCCATGTGATATCTGAGATTAATTAATGTT 4400
| | | | |
QY 1081 TGACCACTATTATATGACCGCTGAGCAAGACACAACAATTGTGCAACGCTCTCTCT 1140
| | | | |
Db 4401 TGACCACTATTATATGACCGCTGAGCAAGACACAACAATTGTGCAACGCTCTCTCT 4460
| | | | |

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QY 1141 GCGTGATATGTGTCTGAACCTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 1200
    |||||
Db 4461 GCGTGATATGTGTCTGAACCTGGCTGCTGAATGTTATGATACGGGACGAACAGGAGGA 4520
    |||||
QY 1201 TCCGTGCTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACAATTGGAAAGCA 1260
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Db 4521 TCCGTGCTCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACAATTGGAAAGCA 4580
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QY 1261 AGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAAGCAAGATTTTGTGACCGAGCGAGGC 1320
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Db 4641 TGGGCTCTCTTCTGATGATTCTATCCAAATTCCAAGACAGTTGGGTGAAGTTGCATCCT 4700
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QY 1381 TTGGGGGCAAGTAATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAATAATAAGC 1440
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Db 4701 TTGGGGGCAAGTAATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTGCTAATAATAAGC 4760
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QY 1441 CAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCCCAATTCATAGTGT 1500
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Db 4761 CAGAGATCGAAGCGGCCCTTCTCTAGACTGGATGAGACTGGAACCCCAATTCATAGTGT 4820
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QY 1501 G 1501
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Db 4821 G 4821
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Search completed: March 2, 2005, 20:00:36
Job time : 902.381 secs

